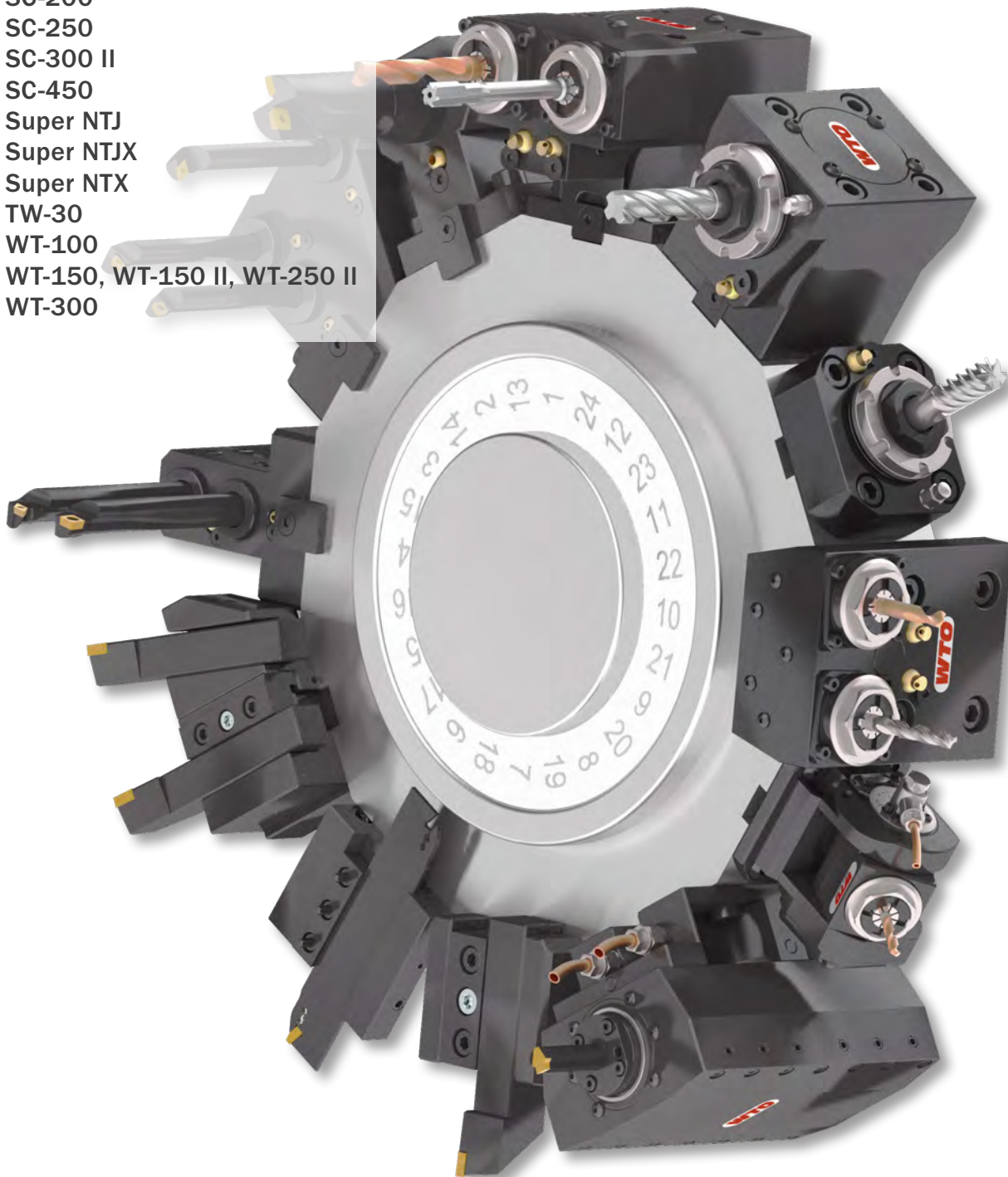


# Toolholder Program

- AS-200 (12 ST)
- AS-200 (15 ST)
- NTJ-100
- NTY<sup>3</sup>-100, WY-100 II (12 ST)
- NTY<sup>3</sup>-150, 250, WY-150, 250
- SC-100
- SC-200
- SC-250
- SC-300 II
- SC-450
- Super NTJ
- Super NTJX
- Super NTX
- TW-30
- WT-100
- WT-150, WT-150 II, WT-250 II
- WT-300



# QuickFlex<sup>®</sup>

The new quick change system for high performance and precision.

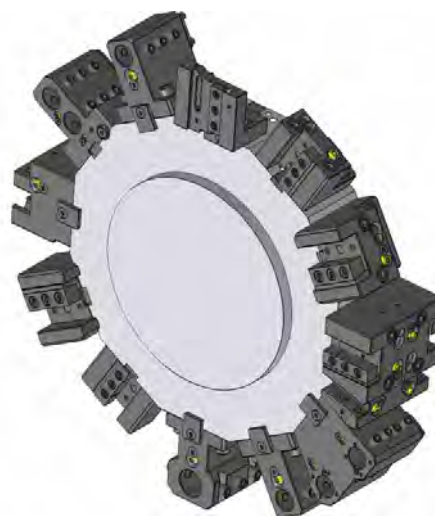
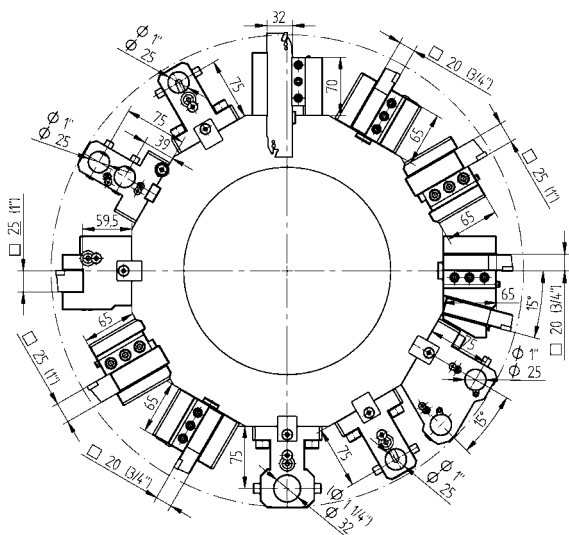
Minimal investment, maximal expandability.




Designed  
for  
BMT Turrets


AS-200 (12 ST)	Page	4 - 6
AS-200 (15 ST)	Page	7 - 9
NTJ-100	Page	10 - 12
NTY <sup>3</sup> -100, WY-100 II (12 ST)	Page	13 - 15
NTY <sup>3</sup> -150, 250, WY-150, 250	Page	16 - 19
SC-100	Page	20 - 22
SC-200	Page	23 - 25
SC-250	Page	26 - 29
SC-300 II	Page	30 - 32
SC-450	Page	33 - 33
Super NTJ	Page	34 - 36
Super NTJX	Page	37 - 39
Super NTX	Page	40 - 42
TW-30	Page	43 - 43
WT-100	Page	44 - 46
WT-150, WT-150 II, WT-250 II	Page	47 - 50
WT-300	Page	51 - 53
Reduction sleeves	Page	54 - 54
Collets	Page	55 - 57


**EC = External coolant supply**  
**HP-IC = High pressure internal coolant supply through cutting tool**  
**IC 80 bar = Internal and external coolant supply**  
 Max. coolant pressure = 80 bar  
**IC 30 bar = Internal and external coolant supply**  
 Max. coolant pressure = 30 bar  
 Only use filtered coolant fluid (max. particle size = 50 µm)  
 Do not run without coolant  
 Do not use for machining abrasive materials such as cast iron, etc.





Static Toolholders - Standard Program


- 

**OD cutting holder**  
 20 48-108585  
 3/4" 48-108586  
 25 48-106720
- 

**OD cutting holder, HP-IC**  
 25 48-106720-HP IC 80 bar  
 1" 48-106730-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-108460  
 3/4" 48-108588
- 


**Face cutting holder**  
 20 48-108590  
 3/4" 48-108591
- 


**Face cutting holder**  
 25 48-107758  
 1" 48-107759
- 


**Combination toolholder**  
 Ø 25 48-107842  
 Ø 1" 48-107879  
 Ø 32 48-106727  
 1 1/4" 48-106734


Static Toolholders - Enhanced Program


- 


**OD cutting holder, double, 24 station (only for turret size 375)**  
 20 48-108784 EC  
 3/4" 48-108785 EC
- 


**OD cutting holder, both sides, double, 24 station (only for turret size 375)**  
 20 48-108786 EC  
 3/4" 48-108787 EC
- 

**Cut-off holder**  
 SH 32 48-99637
- 

**Cut-off holder, HP-IC**  
 SH 32 48-102276R IC 80 bar  
 SH 32 48-102276L IC 80 bar
- 

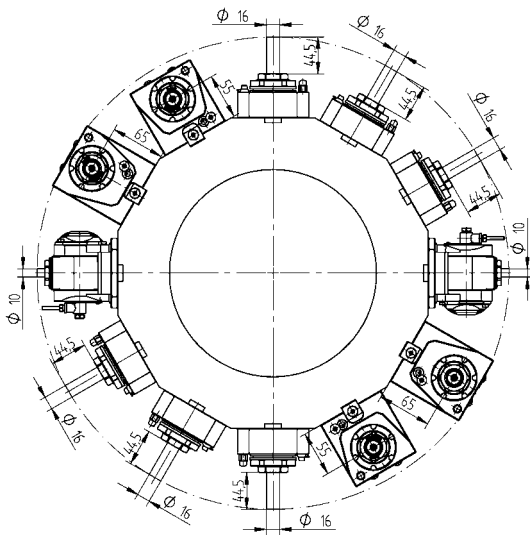
**Cut-off holder, adjustable**  
 SH 32 48-110366 EC
- 

**Cut-off holder, adjustable, HP-IC**  
 SH 32 48-109656L IC 80 bar  
 343-810100L87  
 SH 32 48-109656R IC 80 bar  
 343-810100R87
- 

**Combination toolholder, double**  
 Ø 25 48-108792 IC 80 bar  
 Ø 1" 48-108793 IC 80 bar
- 

**Combination toolholder, both sides, double, 24 station (only for turret size 375)**  
 20 48-108794 EC  
 Ø 1" 48-108795 EC





Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-25 QF** 420125022-55 1:1 EC  
0067725000

**ER-25 QF** 420125023-55 1:1 IC 80 bar  
0067725000



**Right angle drill/milling unit, LF=55**

**ER-25 QF** 420525087-55 1:1 EC  
0067725000

**ER-25 QF** 420525088-55 1:1 IC 80 bar  
0067725000



**Right angle drill/milling unit, LF=65**

**ER-25 QF** 420525085-55 1:1 EC  
0067725000

**ER-25 QF** 420525086-55 1:1 IC 80 bar  
0067725000



**Right angle drill/milling unit, both sides, LF=55**

**ER-25 QF** 420525069-55 1:1 EC  
0067725000



**Right angle drill/milling unit, both sides, LF=65**

**ER-25 QF** 420525077-55 1:1 EC  
0067725010

Driven Toolholders - Enhanced Program



**Straight drill/milling unit**

**ER 32** 410120002-55 1:1 EC  
0067825000

**ER 32** 410120003-55 1:1 IC 80 bar  
0067825000



**Straight milling unit**

**Ø 22** 410222002-55 1:1 EC  
00675000483

**Ø 3/4"** 410219000-55 1:1 EC  
00675000854



**Straight offset drill/milling unit**

**ER 25** 410116027-55 1:1 EC  
00675000932

**ER 25** 410116028-55 1:1 IC 80 bar  
00675000932

**ER 20** 410113006-55 1:2 EC  
00675000939

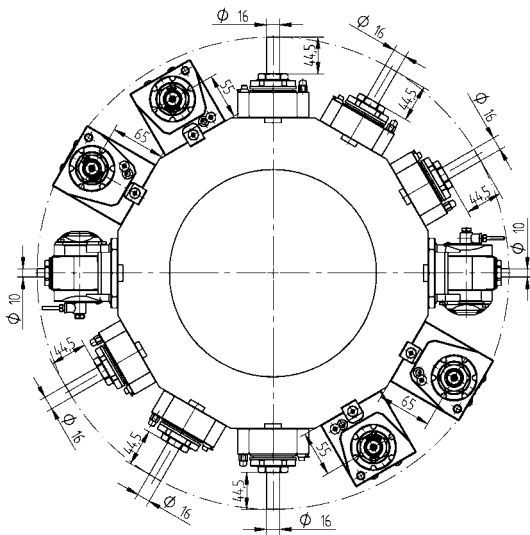
**ER 20** 410113004-55 1:2 IC 80 bar  
00675000939

**ER 16** 410410000-55 1:3 EC  
00675000937

**ER 16** 410410001-55 1:3 IC 80 bar  
00675000937

**ER 25** 410116021-55 2:1 EC  
00675000932

**ER 25** 410116022-55 2:1 IC 80 bar  
00675000932



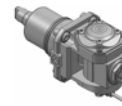
Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



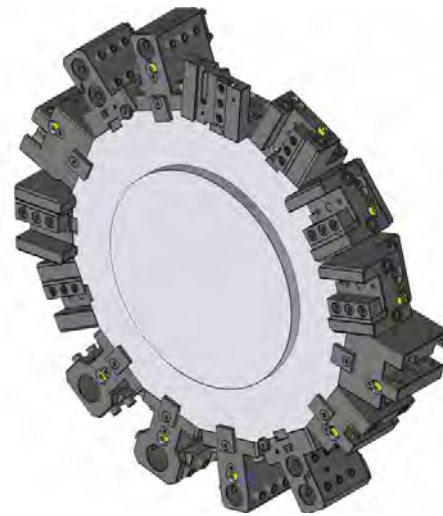
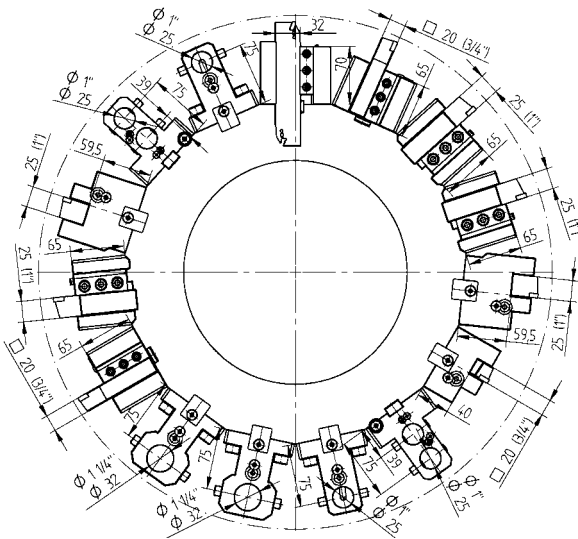
**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		




**Right angle milling unit with combination mill arbor DIN 6358, LF=65**


<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		





Static Toolholders - Standard Program


Static Toolholders - Enhanced Program


- 

**OD cutting holder**  
 20 48-108585  
 3/4" 48-108586  
 25 48-106720
- 


**OD cutting holder, HP-IC**  
 25 48-106720-HP IC 80 bar  
 1" 48-106730-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-108460  
 3/4" 48-108588
- 


**Face cutting holder**  
 20 48-108590  
 3/4" 48-108591
- 


**Face cutting holder**  
 25 48-107758  
 1" 48-107759
- 


**Combination toolholder**  
 Ø 25 48-107842  
 Ø 1" 48-107879  
 Ø 32 48-106727  
 1 1/4" 48-106734

- 

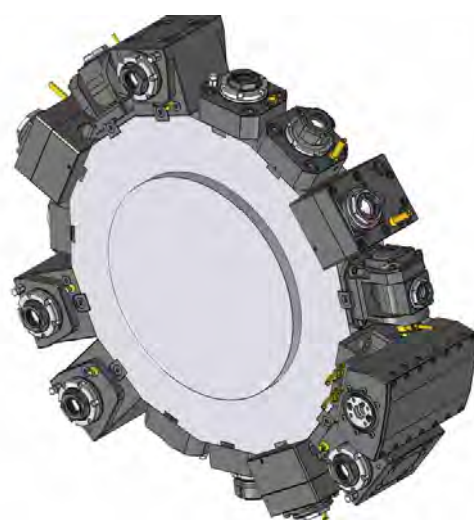
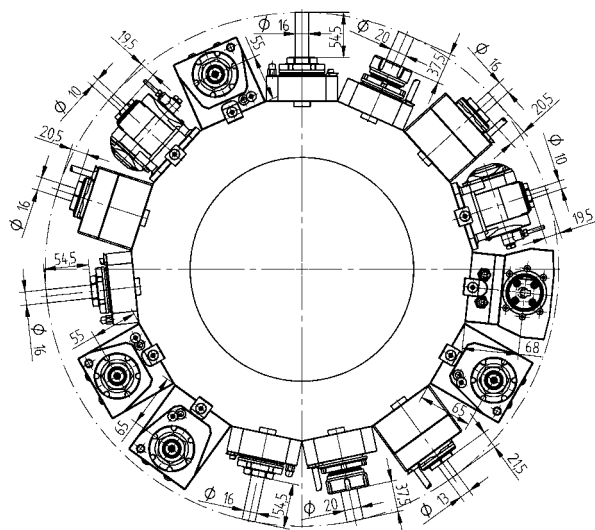
**Cut-off holder**  
 SH 32 48-99637
- 

**Cut-off holder, HP-IC**  
 SH 32 48-102276R IC 80 bar  
 SH 32 48-102276L IC 80 bar
- 


**Cut-off holder, adjustable**  
 SH 32 48-110366 EC
- 


**Cut-off holder, adjustable, HP-IC**  
 SH 32 48-109656L IC 80 bar  
 343-810100L87  
 SH 32 48-109656R IC 80 bar  
 343-810100R87
- 


**Combination toolholder, double**  
 Ø 25 48-108792 IC 80 bar  
 Ø 1" 48-108793 IC 80 bar





Driven Toolholders - QuickFlex®

- 

**Straight drill/milling unit**  
**ER-25 QF** 420125022-55 1:1 EC  
 0067725000  
**ER-25 QF** 420125023-55 1:1 IC 80 bar  
 0067725000
- 


**Right angle drill/milling unit, LF=55**  
**ER-25 QF** 420525087-55 1:1 EC  
 0067725000  
**ER-25 QF** 420525088-55 1:1 IC 80 bar  
 0067725000
- 


**Right angle drill/milling unit, LF=65**  
**ER-25 QF** 420525085-55 1:1 EC  
 0067725000  
**ER-25 QF** 420525086-55 1:1 IC 80 bar  
 0067725000
- 


**Right angle drill/milling unit, both sides, LF=55**  
**ER-25 QF** 420525069-55 1:1 EC  
 0067725000
- 

**Right angle drill/milling unit, both sides, LF=65**  
**ER-25 QF** 420525077-55 1:1 EC  
 0067725010

Driven Toolholders - Enhanced Program

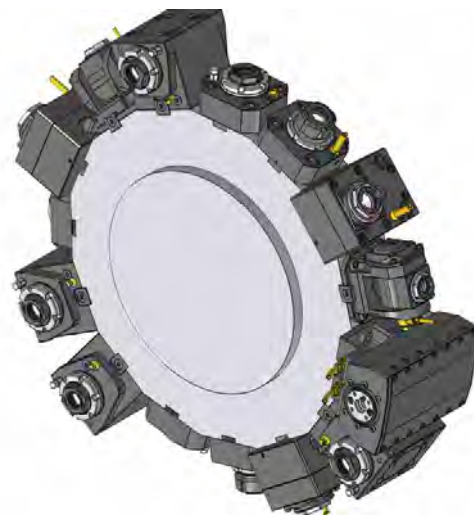
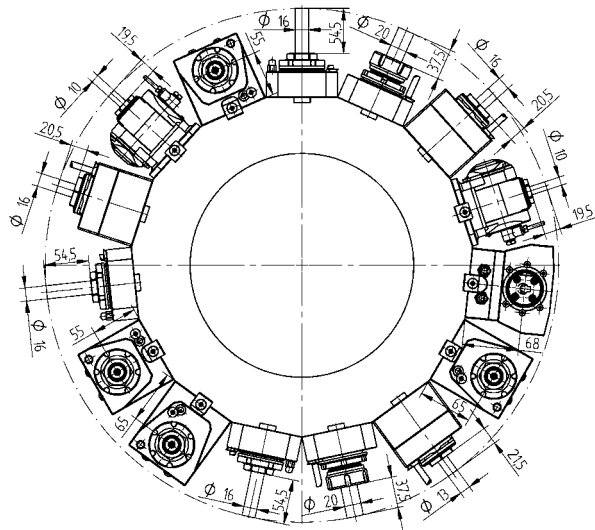
- 

**Straight drill/milling unit**  
**ER 32** 410120002-55 1:1 EC  
 0067825000  
**ER 32** 410120003-55 1:1 IC 80 bar  
 0067825000
- 

**Straight milling unit**  
**Ø 22** 410222002-55 1:1 EC  
 00675000483  
**Ø 3/4"** 410219000-55 1:1 EC  
 00675000854
- 

**Straight offset drill/milling unit**  
**ER 25** 410116027-55 1:1 EC  
 00675000932  
**ER 25** 410116028-55 1:1 IC 80 bar  
 00675000932  
**ER 20** 410113006-55 1:2 EC  
 00675000939  
**ER 20** 410113004-55 1:2 IC 80 bar  
 00675000939  
**ER 16** 410410000-55 1:3 EC  
 00675000937  
**ER 16** 410410001-55 1:3 IC 80 bar  
 00675000937  
**ER 25** 410116021-55 2:1 EC  
 00675000932  
**ER 25** 410116022-55 2:1 IC 80 bar  
 00675000932





Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



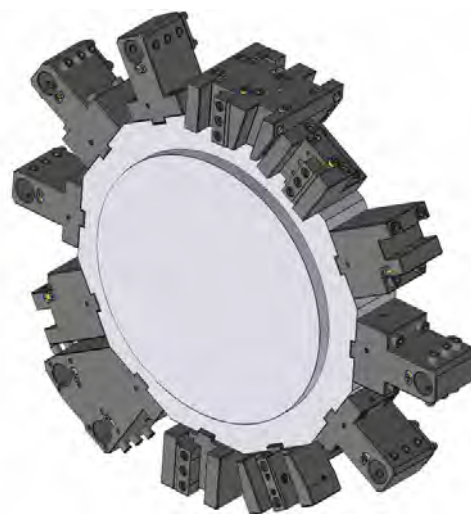
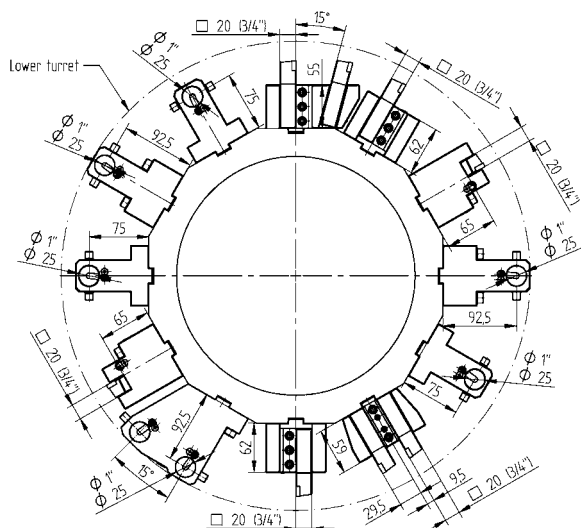
**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		





**Broaching unit for ID and OD**


<b>TN765050</b>	414532003-55	1:1	EC
-----------------	--------------	-----	----





Static Toolholders - Standard Program


- 

**OD cutting holder**  
 20 48-101470  
 Z90-86304-00  
 3/4" 48-104496
- 

**OD cutting holder, HP-IC**  
 20 48-101470-HP IC 80 bar  
 3/4" 48-104496-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-101471  
 Z90-86303-00  
 3/4" 48-104755
- 


**Face cutting holder**  
 20 48-102352  
 Z90-86301-00  
 3/4" 48-104735
- 


**Combination toolholder, LF=75**  
 Ø 25 48-101472  
 Z90-86302-00  
 Ø 1" 48-104526
- 


**Combination toolholder, LF=92,5**  
 Ø 25 48-106613  
 Ø 1" 48-106614


Static Toolholders - Enhanced Program


- 

**OD cutting holder, double, Y axis**  
 20 48-101473  
 Z90-86548-00  
 3/4" 48-104523
- 

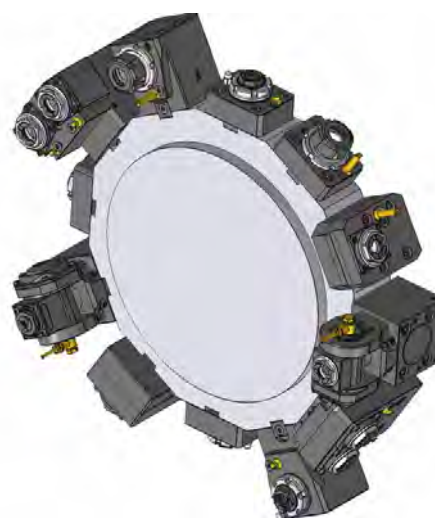
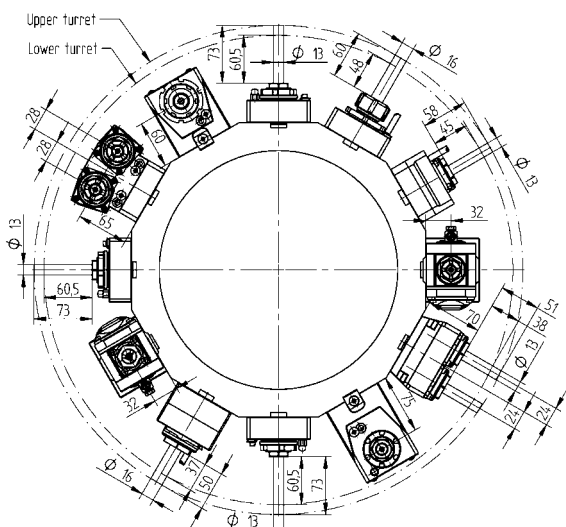
**OD cutting holder, both sides, double, 24 station (only for turret size 370)**  
 20 48-108104 EC  
 3/4" 48-108148 EC
- 

**Cut-off holder**  
 SH 26 48-100419  
 Z90-86307-00
- 

**Cut-off holder, HP-IC**  
 SH 26 48-102274R IC 80 bar  
 SH 26 48-102274L IC 80 bar  
 SH 32 48-112233R IC 80 bar  
 343-810100R95  
 SH 32 48-112233L IC 80 bar  
 343-810100L95
- 

**Combination toolholder, universal, double, 24 station (only for turret size 300)**  
 Ø 25 48-107985 IC 80 bar  
 Ø 1" 48-108111 IC 80 bar
- 

**Combination toolholder, universal, double, 24 station (only for turret size 370)**  
 Ø 25 48-108103 IC 80 bar  
 Ø 1" 48-108147 IC 80 bar

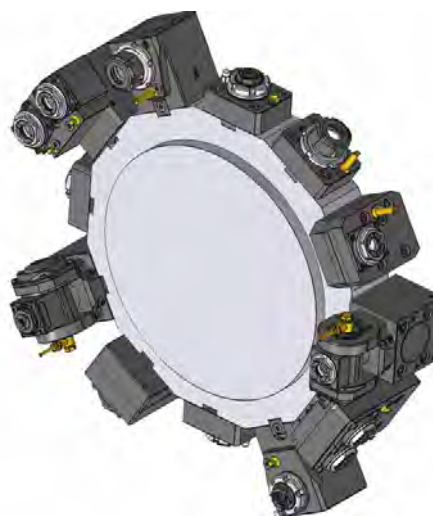
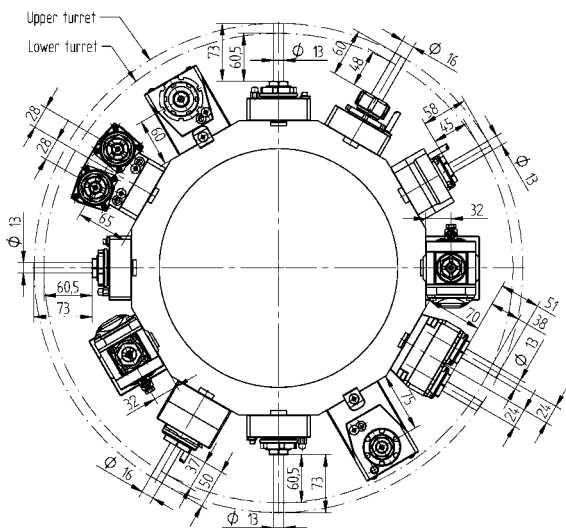


Driven Toolholders - QuickFlex®

	<b>Straight drill/milling unit</b>			
	<b>ER-20 QF</b>	420120010-44 Z90-86300-00 0067720000	1:1	EC
	<b>ER-20 QF</b>	420120011-44 0067720000	1:1	IC 80 bar
	<b>Right angle drill/milling unit, LF=60</b>			
	<b>ER-20 QF</b>	420520010-44 Z90-86299-00 0067720000	1:1	EC
	<b>ER-20 QF</b>	420520011-44 0067720000	1:1	IC 80 bar
	<b>Right angle drill/milling unit, LF=75</b>			
	<b>ER-20 QF</b>	420520015-44 0067720000	1:1	EC
	<b>ER-20 QF</b>	420520016-44 0067720000	1:1	IC 80 bar
		<b>Right angle drill/milling unit, both sides, LF=60</b>		
<b>ER-20 QF</b>		420520012-44 0067720000	1:1	EC

Driven Toolholders - Enhanced Program

	<b>Straight drill/milling unit</b>			
	<b>ER 25</b>	410116004-44 Z90-86305-00 00675000720	1:1	EC
	<b>ER 25</b>	410116002-44 00675000720	1:1	IC 80 bar
	<b>Straight offset drill/milling unit</b>			
<b>ER 20</b>		410113004-44 Z90-89788-00 00675000939	1:2	EC
	<b>ER 16</b>	410110002-44 00675000937	1:3	EC
	<b>ER 25</b>	410116005-44 00675000932	1.5:1	EC
	<b>Right angle drill/milling unit, LF=60</b>			
	<b>ER 25</b>	410516005-44 Z90-86306-00 00675000720	1:1	EC
	<b>ER 25</b>	410516006-44 00675000720	1:1	IC 80 bar
		<b>ER 20</b>	410513002-44 Z90-89789-00 00675000833	1:2
<b>ER 20</b>		410513003-44 00675000833	1:2	IC 80 bar
	<b>ER 16</b>	410810006-44 00675000841	1:3	EC
	<b>ER 16</b>	410810007-44 00675000841	1:3	IC 80 bar
	<b>ER 25</b>	410516002-44 00675000720	2:1	EC
	<b>ER 25</b>	410516003-44 00675000720	2:1	IC 80 bar



Driven Toolholders - Enhanced Program



**Right angle milling unit with combination mill arbor DIN 6358, LF=60**

<b>Ø 22</b>	410622000-44	1:1	EC
	00675000483		
<b>Ø 22</b>	410622001-44	2:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010004-44	1:1	EC
	Z90-89787-00		
	00675000902		
<b>ER 16</b>	411010005-44	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007006-44	1:2	EC
	00675000914		
<b>ER 11</b>	411007007-44	1:2	IC 80 bar
	00675000914		



**Straight drill/milling unit, double, Y axis**

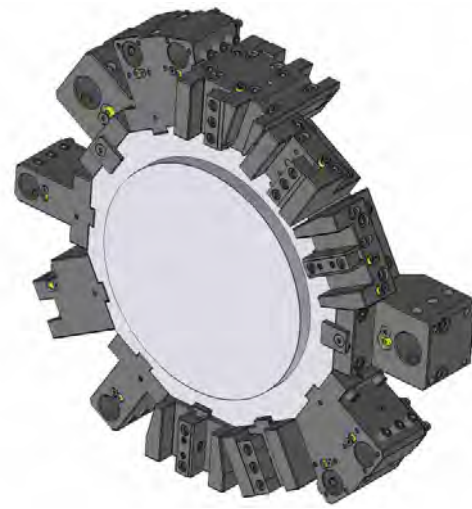
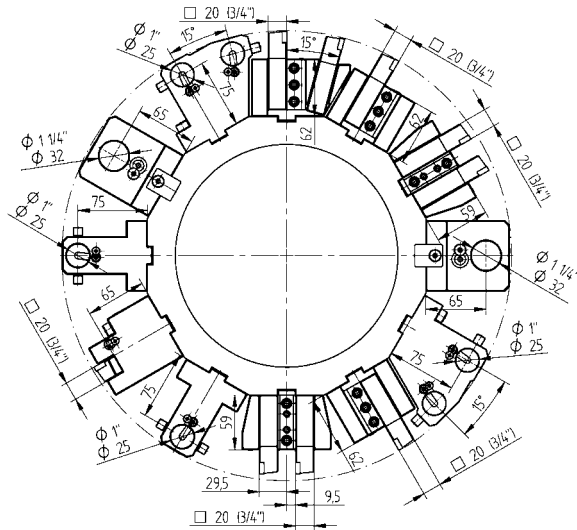
<b>ER 20</b>	413002003-44	1:1	EC
	00675000939		
<b>ER 20</b>	413002004-44	1:1	IC 80 bar
	00675000939		




**2-spindle - Right angle drill/milling unit, Y axis**


<b>ER 20</b>	413502004-44	1:1	EC
	00675000939		
<b>ER 20</b>	413502005-44	1:1	IC 80 bar
	00675000939		








Static Toolholders - Standard Program


- 

**OD cutting holder**  
 20      48-101470  
          Z90-86304-00  
 3/4"     48-104496
- 

**OD cutting holder, HP-IC**  
 20      48-101470-HP    IC 80 bar  
 3/4"     48-104496-HP    IC 80 bar
- 


**OD cutting holder, both sides**  
 20      48-101471  
          Z90-86303-00  
 3/4"     48-104755
- 


**Face cutting holder**  
 20      48-102352  
          Z90-86301-00  
 3/4"     48-104735
- 


**Combination toolholder, LF=75**  
 Ø 25     48-101472  
          Z90-86302-00  
 Ø 1"     48-104526
- 


**Combination toolholder**  
 Ø 32     48-107155  
 Ø 1 1/4" 48-107260


Static Toolholders - Enhanced Program

- 

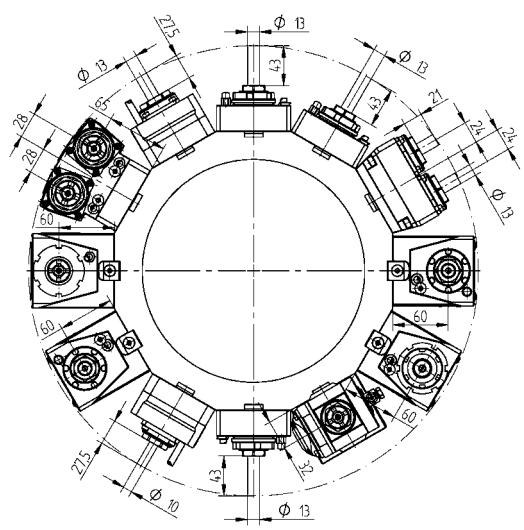
**OD cutting holder, double, Y axis**  
 20      48-101473  
          Z90-86548-00  
 3/4"     48-104523
- 

**OD cutting holder, both sides, double, 24 station (only for turret size 300)**  
 20      48-107973        EC  
 3/4"     48-108110        EC
- 


**Cut-off holder**  
 SH 26    48-100419  
               Z90-86307-00
- 

**Cut-off holder, HP-IC**  
 SH 26    48-102274R        IC 80 bar  
 SH 26    48-102274L        IC 80 bar  
 SH 32    48-112233R        IC 80 bar  
               343-810100R95  
 SH 32    48-112233L        IC 80 bar  
               343-810100L95
- 




**Combination toolholder, universal, double, 24 station (only for turret size 300)**  
 Ø 25     48-107985        IC 80 bar  
 Ø 1"     48-108111        IC 80 bar






Driven Toolholders - QuickFlex®

- 




**Straight drill/milling unit**

<b>ER-20 QF</b>	420120010-44	1:1	EC
	Z90-86300-00		
	 0067720000		
<b>ER-20 QF</b>	420120011-44	1:1	IC 80 bar
	Z90-86300-00		
	 0067720000		
  
- 




**Straight drill/milling unit (8000 RPM)**

<b>ER-20 QF</b>	420120010-44-S	1:1	EC
	Z90-86300-00		
	 0067720000		
<b>ER-20 QF</b>	420120011-44-S	1:1	IC 80 bar
	Z90-86300-00		
	 0067720000		
  
- 


**Right angle drill/milling unit, LF=60**

<b>ER-20 QF</b>	420520010-44	1:1	EC
	Z90-86299-00		
	 0067720000		
<b>ER-20 QF</b>	420520011-44	1:1	IC 80 bar
	Z90-86299-00		
	 0067720000		
  
- 


**Right angle drill/milling unit, LF=60, (8000 RPM)**

<b>ER-20 QF</b>	420520010-44-S	1:1	EC
	Z90-86299-00		
	 0067720000		
<b>ER-20 QF</b>	420520011-44-S	1:1	IC 80 bar
	Z90-86299-00		
	 0067720000		
  
- 




**Right angle drill/milling unit, both sides, LF=60**

<b>ER-20 QF</b>	420520012-44	1:1	EC
	Z90-86299-00		
	 0067720000		




Driven Toolholders - Enhanced Program

- 




**Straight drill/milling unit**

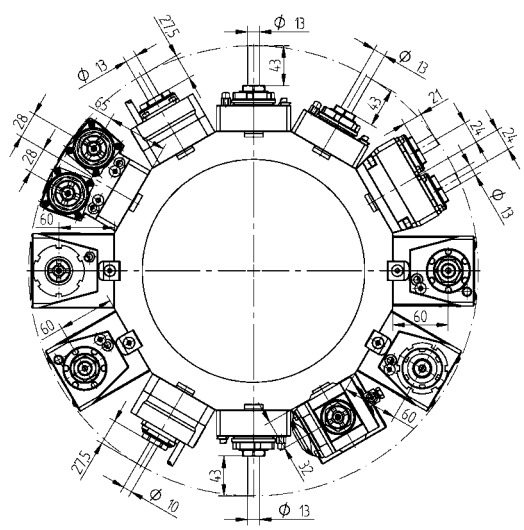
<b>ER 25</b>	410116004-44	1:1	EC
	Z90-86305-00		
	 00675000720		
<b>ER 25</b>	410116002-44	1:1	IC 80 bar
	Z90-86305-00		
	 00675000720		
  
- 

**Straight drill/milling unit (8000 RPM)**

<b>ER 25</b>	410116004-44-S	1:1	EC
	Z90-86305-00		
	 00675000720		
<b>ER 25</b>	410116002-44-S	1:1	IC 80 bar
	Z90-86305-00		
	 00675000720		
  
- 

**Straight offset drill/milling unit**

<b>ER 20</b>	410113004-44	1:2	EC
	Z90-89788-00		
	 00675000939		
<b>ER 16</b>	410110002-44	1:3	EC
	Z90-89788-00		
	 00675000937		
<b>ER 25</b>	410116005-44	1.5:1	EC
	Z90-89788-00		
	 00675000932		



Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=60**

<b>ER 25</b>	410516005-44 Z90-86306-00	1:1	EC
	00675000720		
<b>ER 25</b>	410516006-44	1:1	IC 80 bar
	00675000720		
<b>ER 20</b>	410513002-44 Z90-89789-00	1:2	EC
	00675000833		
<b>ER 20</b>	410513003-44	1:2	IC 80 bar
	00675000833		
<b>ER 16</b>	410810006-44	1:3	EC
	00675000841		
<b>ER 16</b>	410810007-44	1:3	IC 80 bar
	00675000841		
<b>ER 25</b>	410516002-44	2:1	EC
	00675000720		
<b>ER 25</b>	410516003-44	2:1	IC 80 bar
	00675000720		



**Right angle drill/milling unit, LF=60, (8000 RPM)**

<b>ER 25</b>	410516005-44-S	1:1	EC
	00675000720		
<b>ER 25</b>	410516006-44-S	1:1	IC 80 bar
	00675000720		



**Right angle milling unit with combination mill arbor DIN 6358, LF=60**

<b>Ø 22</b>	410622000-44	1:1	EC
	00675000483		
<b>Ø 22</b>	410622001-44	2:1	EC
	00675000483		

Driven Toolholders - Enhanced Program



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010004-44 Z90-89787-00	1:1	EC
	00675000902		
<b>ER 16</b>	411010005-44	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007006-44	1:2	EC
	00675000914		
<b>ER 11</b>	411007007-44	1:2	IC 80 bar
	00675000914		



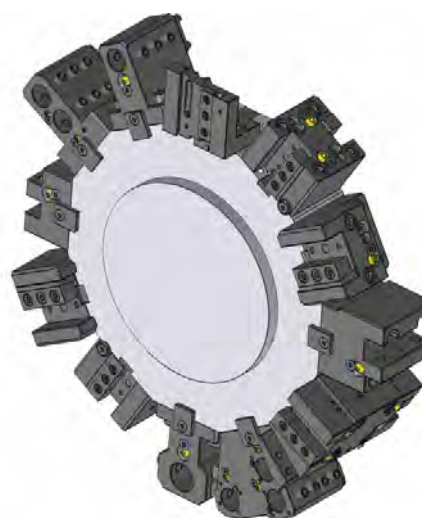
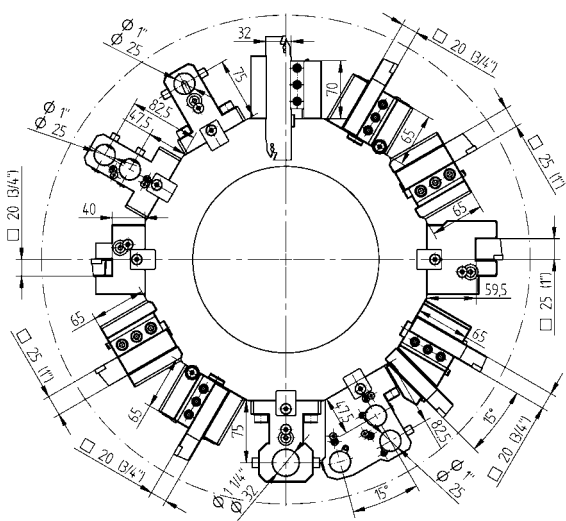
**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002003-44	1:1	EC
	00675000939		
<b>ER 20</b>	413002004-44	1:1	IC 80 bar
	00675000939		




**2-spindle - Right angle drill/milling unit, Y axis**


<b>ER 20</b>	413502004-44	1:1	EC
	00675000939		
<b>ER 20</b>	413502005-44	1:1	IC 80 bar
	00675000939		




Static Toolholders - Standard Program

- 


**OD cutting holder**

20	48-108585
3/4"	48-108586
25	48-106720
- 


**OD cutting holder, HP-IC**

25	48-106720-HP	IC 80 bar
1"	48-106730-HP	IC 80 bar
- 


**OD cutting holder, both sides**

20	48-108460
3/4"	48-108588
- 

**Face cutting holder**

20	48-108590
3/4"	48-108591
- 


**Face cutting holder**

25	48-107758
1"	48-107759
- 


**Combination toolholder**

Ø 25	48-107842
Ø 1"	48-107879
Ø 32	48-106727
1 1/4"	48-106734


Static Toolholders - Enhanced Program

- 


**OD cutting holder, double, 24 station (only for turret size 340)**

20	48-108592	EC
3/4"	48-108593	EC
- 


**OD cutting holder, both sides, double, 24 station (only for turret size 340)**

20	48-108461	EC
3/4"	48-108595	EC
- 


**Cut-off holder**

SH 32	48-99637
-------	----------
- 


**Cut-off holder, HP-IC**

SH 32	48-102276R	IC 80 bar
SH 32	48-102276L	IC 80 bar
- 


**Cut-off holder, adjustable**

SH 32	48-110366	EC
-------	-----------	----
- 

**Cut-off holder, adjustable, HP-IC**

SH 32	48-109656L	IC 80 bar
	343-810100L87	
SH 32	48-109656R	IC 80 bar
	343-810100R87	
- 

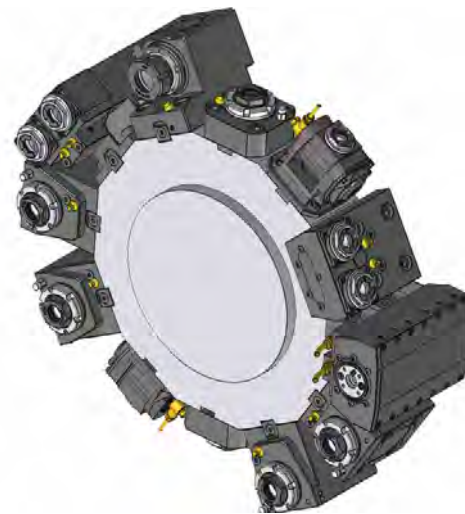
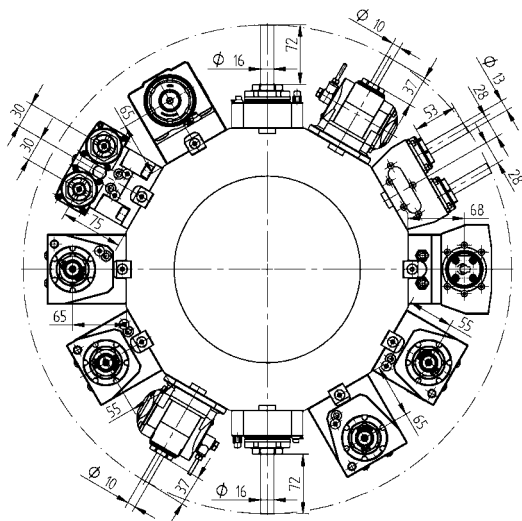
**Combination toolholder, double**

Ø 25	48-108596	IC 80 bar
Ø 1"	48-108597	IC 80 bar
- 

**Combination toolholder, universal, triple, 24 station (only for turret size 340)**

Ø 25	48-108462	IC 80 bar
Ø 1"	48-108599	IC 80 bar





Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-25 QF** 420125022-55 1:1 EC  
 0067725000

**ER-25 QF** 420125023-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, LF=55**

**ER-25 QF** 420525087-55 1:1 EC  
 0067725000

**ER-25 QF** 420525088-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, LF=65**

**ER-25 QF** 420525085-55 1:1 EC  
 0067725000

**ER-25 QF** 420525086-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, both sides, LF=55**

**ER-25 QF** 420525069-55 1:1 EC  
 0067725000



**Right angle drill/milling unit, both sides, LF=65**

**ER-25 QF** 420525077-55 1:1 EC  
 0067725010

Driven Toolholders - Enhanced Program



**Straight drill/milling unit**

**ER 32** 410120002-55 1:1 EC  
 0067825000

**ER 32** 410120003-55 1:1 IC 80 bar  
 0067825000



**Straight milling unit**

**Ø 22** 410222002-55 1:1 EC  
 00675000483

**Ø 3/4"** 410219000-55 1:1 EC  
 00675000854



**Straight offset drill/milling unit**

**ER 25** 410116027-55 1:1 EC  
 00675000932

**ER 25** 410116028-55 1:1 IC 80 bar  
 00675000932

**ER 20** 410113006-55 1:2 EC  
 00675000939

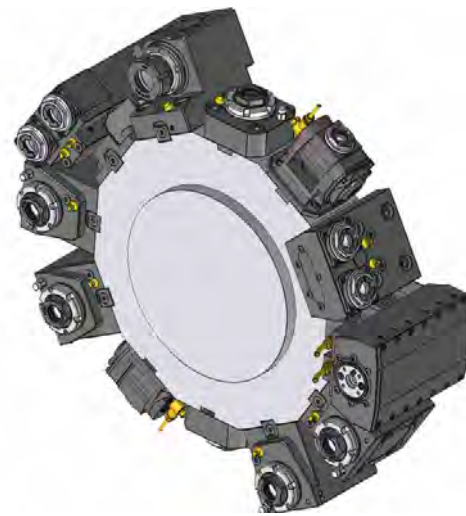
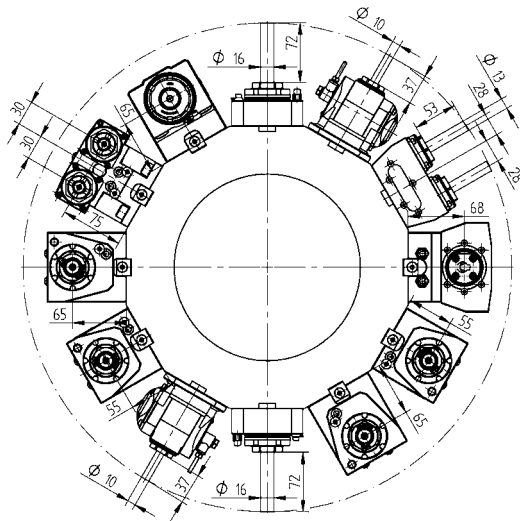
**ER 20** 410113004-55 1:2 IC 80 bar  
 00675000939

**ER 16** 410410000-55 1:3 EC  
 00675000937

**ER 16** 410410001-55 1:3 IC 80 bar  
 00675000937

**ER 25** 410116021-55 2:1 EC  
 00675000932

**ER 25** 410116022-55 2:1 IC 80 bar  
 00675000932



Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		



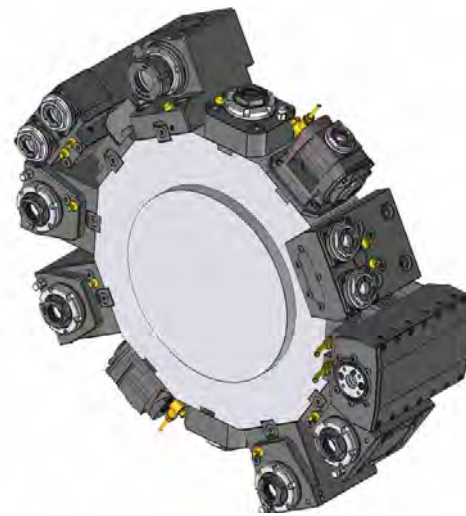
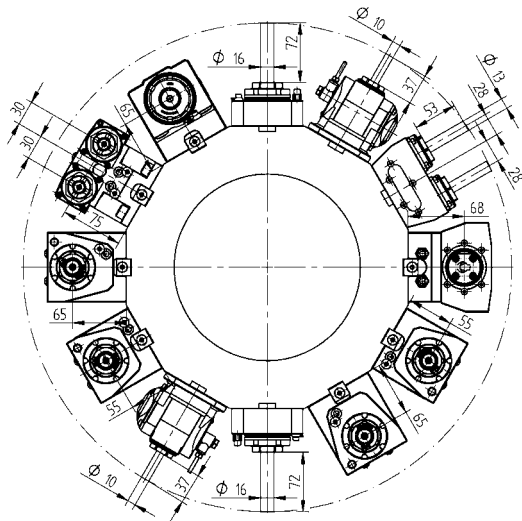
**Slitting saw unit**

<b>Type 14-2</b>	411500000-55	2.73:1	EC
	00675000489		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		



**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002001-55	1:1	EC
	00675000944		



Driven Toolholders - Enhanced Program



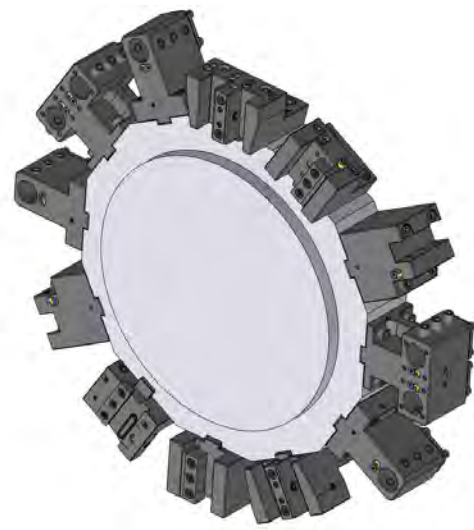
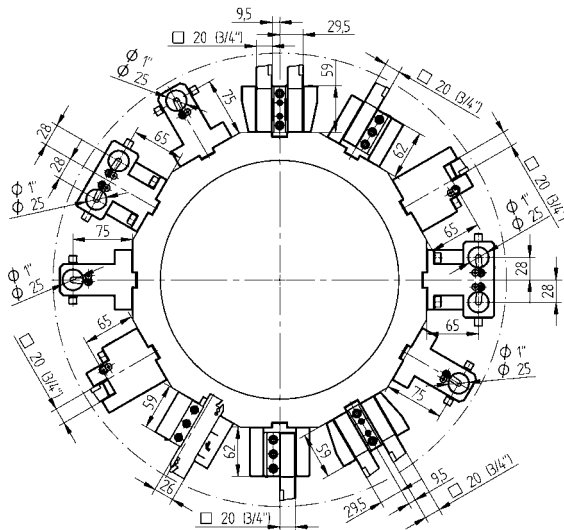
**2-spindle - Right angle drill/milling unit, Y axis**

**ER 20** 413502012-55 1:1 EC  
 00675000944



**Broaching unit for ID and OD**

**TN765050** 414532003-55 1:1 EC



Static Toolholders - Standard Program

Static Toolholders - Enhanced Program

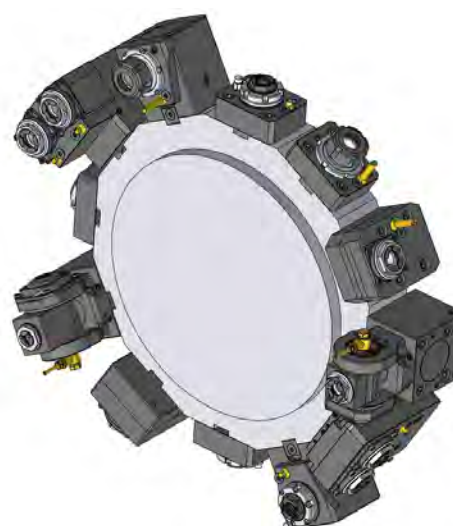
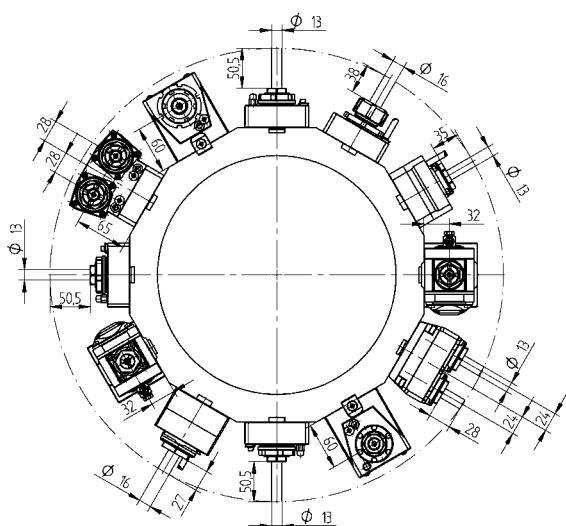


- OD cutting holder**  
 20 48-101470  
 Z90-86304-00  
 3/4" 48-104496
- OD cutting holder, HP-IC**  
 20 48-101470-HP IC 80 bar  
 3/4" 48-104496-HP IC 80 bar
- OD cutting holder, both sides**  
 20 48-101471  
 Z90-86303-00  
 3/4" 48-104755
- Face cutting holder**  
 20 48-102352  
 Z90-86301-00  
 3/4" 48-104735
- Combination toolholder, LF=75**  
 Ø 25 48-101472  
 Z90-86302-00  
 Ø 1" 48-104526



- OD cutting holder, double, Y axis**  
 20 48-101473  
 Z90-86548-00  
 3/4" 48-104523
- Cut-off holder**  
 SH 26 48-100419  
 Z90-86307-00
- Cut-off holder, HP-IC**  
 SH 26 48-102274R IC 80 bar  
 SH 26 48-102274L IC 80 bar  
 SH 32 48-112233R IC 80 bar  
 343-810100R95  
 SH 32 48-112233L IC 80 bar  
 343-810100L95
- Combination toolholder, universal, double, Y axis**  
 Ø 25 48-101474  
 Z90-86547-00  
 Ø 1" 48-104528



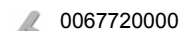


Driven Toolholders - QuickFlex®



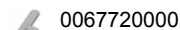
**Straight drill/milling unit**

**ER-20 QF** 420120010-44 1:1 EC  
Z90-86300-00



0067720000

**ER-20 QF** 420120011-44 1:1 IC 80 bar

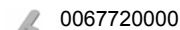


0067720000



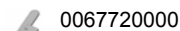
**Right angle drill/milling unit, LF=60**

**ER-20 QF** 420520010-44 1:1 EC  
Z90-86299-00



0067720000

**ER-20 QF** 420520011-44 1:1 IC 80 bar



0067720000



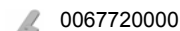
**Right angle drill/milling unit, LF=75**

**ER-20 QF** 420520015-44 1:1 EC  
Z90-86300-00



0067720000

**ER-20 QF** 420520016-44 1:1 IC 80 bar



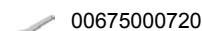
0067720000

Driven Toolholders - Enhanced Program



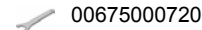
**Straight drill/milling unit**

**ER 25** 410116004-44 1:1 EC  
Z90-86305-00



00675000720

**ER 25** 410116002-44 1:1 IC 80 bar

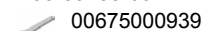


00675000720



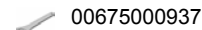
**Straight offset drill/milling unit**

**ER 20** 410113004-44 1:2 EC  
Z90-89788-00



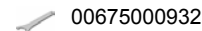
00675000939

**ER 16** 410110002-44 1:3 EC



00675000937

**ER 25** 410116005-44 1.5:1 EC

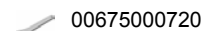


00675000932



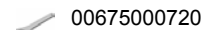
**Right angle drill/milling unit, LF=60**

**ER 25** 410516005-44 1:1 EC  
Z90-86306-00



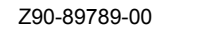
00675000720

**ER 25** 410516006-44 1:1 IC 80 bar



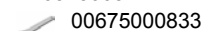
00675000720

**ER 20** 410513002-44 1:2 EC



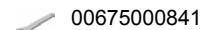
Z90-89789-00  
00675000833

**ER 20** 410513003-44 1:2 IC 80 bar



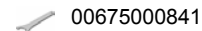
00675000833

**ER 16** 410810006-44 1:3 EC



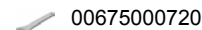
00675000841

**ER 16** 410810007-44 1:3 IC 80 bar



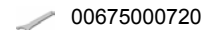
00675000841

**ER 25** 410516002-44 2:1 EC

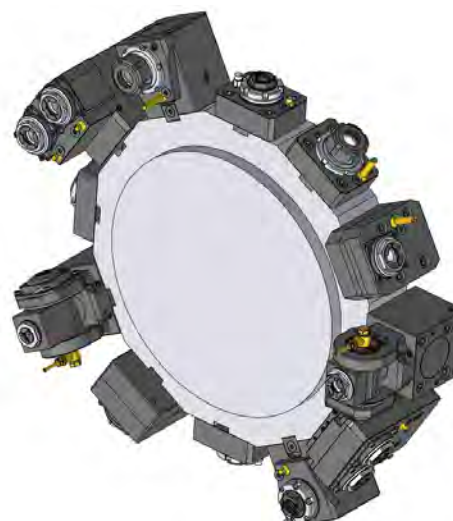
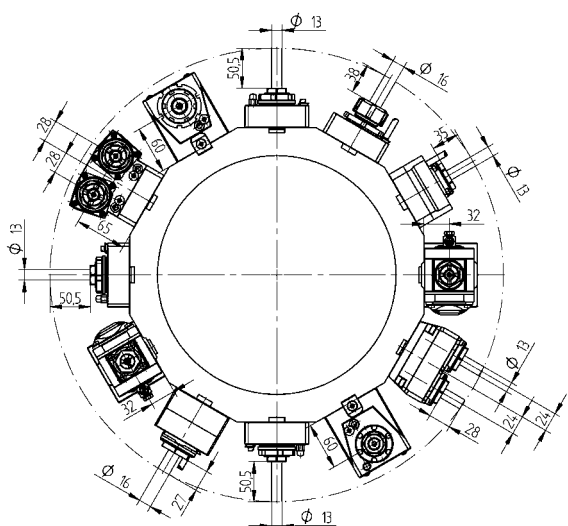


00675000720

**ER 25** 410516003-44 2:1 IC 80 bar



00675000720



Driven Toolholders - Enhanced Program



**Right angle milling unit with combination mill arbor DIN 6358, LF=60**

<b>Ø 22</b>	410622000-44	1:1	EC
	00675000483		
<b>Ø 22</b>	410622001-44	2:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010004-44	1:1	EC
	Z90-89787-00		
	00675000902		
<b>ER 16</b>	411010005-44	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007006-44	1:2	EC
	00675000914		
<b>ER 11</b>	411007007-44	1:2	IC 80 bar
	00675000914		



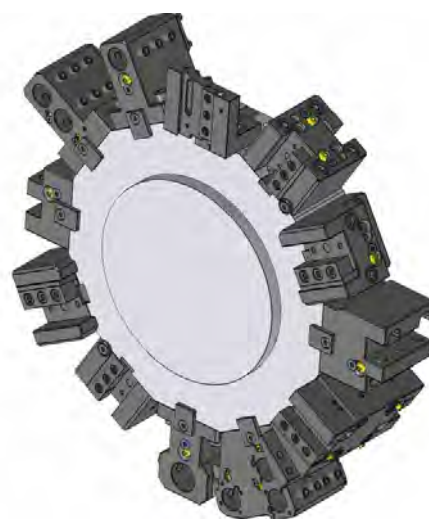
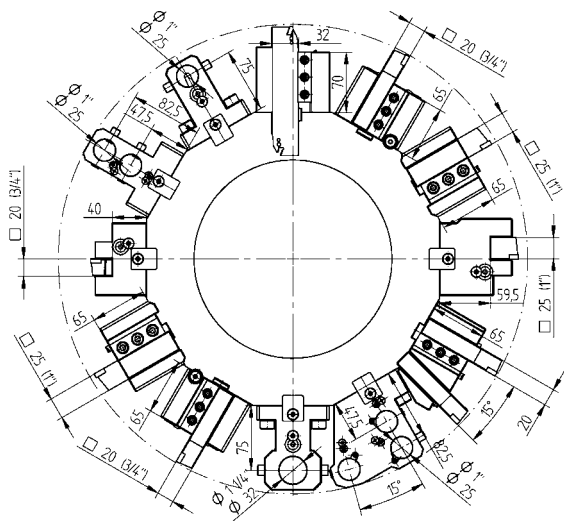
**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002003-44	1:1	EC
	00675000939		
<b>ER 20</b>	413002004-44	1:1	IC 80 bar
	00675000939		





**2-spindle - Right angle drill/milling unit, Y axis**


<b>ER 20</b>	413502004-44	1:1	EC
	00675000939		
<b>ER 20</b>	413502005-44	1:1	IC 80 bar
	00675000939		





Static Toolholders - Standard Program


- 

**OD cutting holder**  
 20 48-108585  
 3/4" 48-108586  
 25 48-106720
- 

**OD cutting holder, HP-IC**  
 25 48-106720-HP IC 80 bar  
 1" 48-106730-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-108460  
 3/4" 48-108588
- 


**Face cutting holder**  
 20 48-108590  
 3/4" 48-108591
- 


**Face cutting holder**  
 25 48-107758  
 1" 48-107759
- 


**Combination toolholder**  
 Ø 25 48-107842  
 Ø 1" 48-107879  
 Ø 32 48-106727  
 1 1/4" 48-106734


Static Toolholders - Enhanced Program


- 


**OD cutting holder, double, 24 station (only for turret size 340)**  
 20 48-108592 EC  
 3/4" 48-108593 EC
- 


**OD cutting holder, both sides, double, 24 station (only for turret size 340)**  
 20 48-108461 EC  
 3/4" 48-108595 EC
- 

**Cut-off holder**  
 SH 32 48-99637
- 

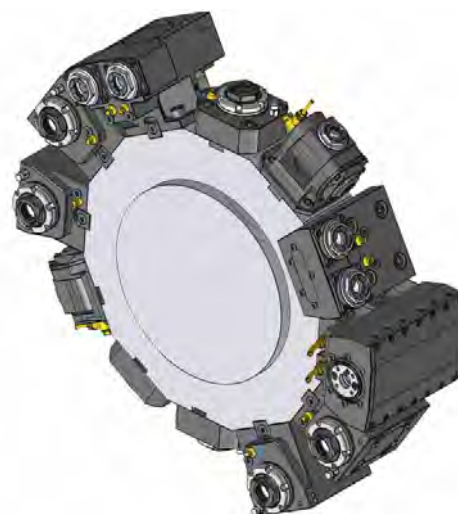
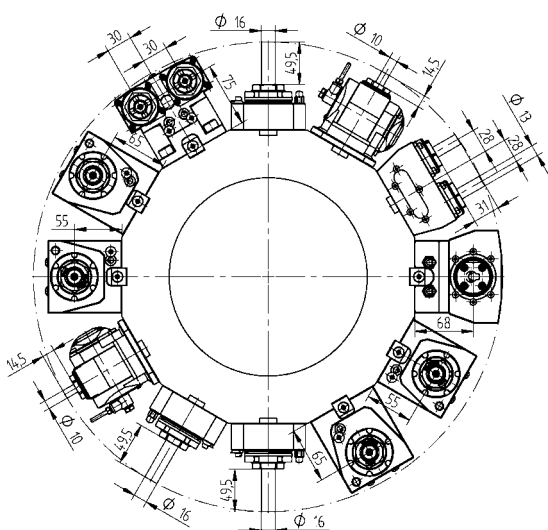
**Cut-off holder, HP-IC**  
 SH 32 48-102276R IC 80 bar  
 SH 32 48-102276L IC 80 bar
- 

**Cut-off holder, adjustable**  
 SH 32 48-110366 EC
- 

**Cut-off holder, adjustable, HP-IC**  
 SH 32 48-109656L IC 80 bar  
 343-810100L87  
 SH 32 48-109656R IC 80 bar  
 343-810100R87
- 

**Combination toolholder, double**  
 Ø 25 48-108596 IC 80 bar  
 Ø 1" 48-108597 IC 80 bar
- 

**Combination toolholder, universal, triple, 24 station (only for turret size 340)**  
 Ø 25 48-108462 IC 80 bar  
 Ø 1" 48-108599 IC 80 bar



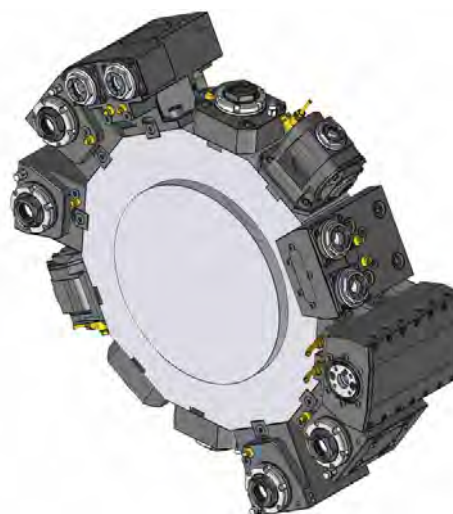
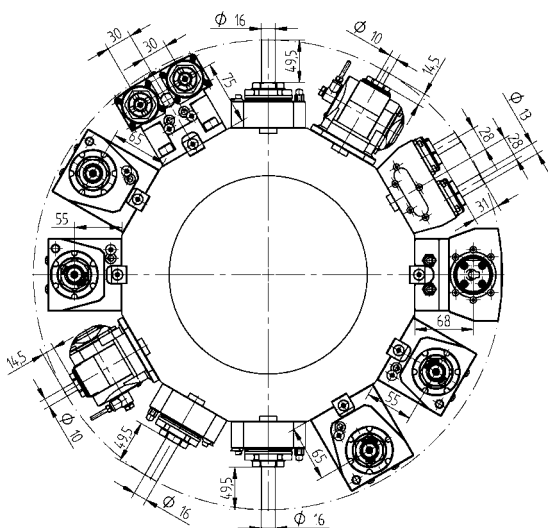
Driven Toolholders - QuickFlex®

	<b>Straight drill/milling unit</b>			
	<b>ER-25 QF</b>	420125022-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420125023-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, LF=55</b>			
	<b>ER-25 QF</b>	420525087-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420525088-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, LF=65</b>			
	<b>ER-25 QF</b>	420525085-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420525086-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, both sides, LF=55</b>			
	<b>ER-25 QF</b>	420525069-55	1:1	EC
		0067725000		
	<b>Right angle drill/milling unit, both sides, LF=65</b>			
	<b>ER-25 QF</b>	420525077-55	1:1	EC
		0067725010		

Driven Toolholders - Enhanced Program

	<b>Straight drill/milling unit</b>			
	<b>ER 32</b>	410120002-55	1:1	EC
		0067825000		
	<b>ER 32</b>	410120003-55	1:1	IC 80 bar
		0067825000		
	<b>Straight milling unit</b>			
	<b>Ø 22</b>	410222002-55	1:1	EC
		00675000483		
	<b>Ø 3/4"</b>	410219000-55	1:1	EC
		00675000854		
	<b>Straight offset drill/milling unit</b>			
	<b>ER 25</b>	410116027-55	1:1	EC
		00675000932		
	<b>ER 25</b>	410116028-55	1:1	IC 80 bar
		00675000932		
	<b>ER 20</b>	410113006-55	1:2	EC
		00675000939		
	<b>ER 20</b>	410113004-55	1:2	IC 80 bar
		00675000939		
	<b>ER 16</b>	410410000-55	1:3	EC
		00675000937		
	<b>ER 16</b>	410410001-55	1:3	IC 80 bar
		00675000937		
	<b>ER 25</b>	410116021-55	2:1	EC
		00675000932		
	<b>ER 25</b>	410116022-55	2:1	IC 80 bar
		00675000932		





Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



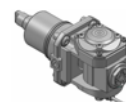
**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002001-55	1:1	EC
	00675000944		



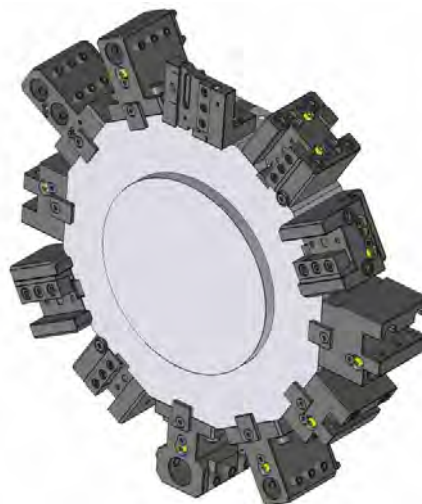
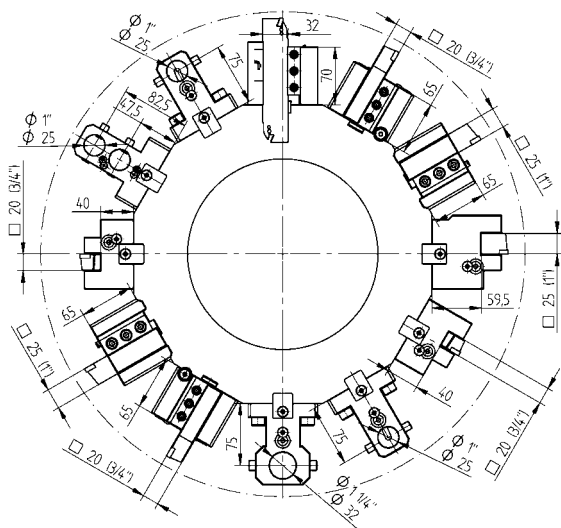
**2-spindle - Right angle drill/milling unit, Y axis**

<b>ER 20</b>	413502012-55	1:1	EC
	00675000944		





**Broaching unit for ID and OD**


<b>TN765050</b>	414532003-55	1:1	EC
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Static Toolholders - Standard Program


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**OD cutting holder**  
 20 48-108585  
 3/4" 48-108586  
 25 48-106720
- 

**OD cutting holder, HP-IC**  
 25 48-106720-HP IC 80 bar  
 1" 48-106730-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-108460  
 3/4" 48-108588
- 


**Face cutting holder**  
 20 48-108590  
 3/4" 48-108591
- 


**Face cutting holder**  
 25 48-107758  
 1" 48-107759
- 


**Combination toolholder**  
 Ø 25 48-107842  
 Ø 1" 48-107879  
 Ø 32 48-106727  
 1 1/4" 48-106734


Static Toolholders - Enhanced Program

- 

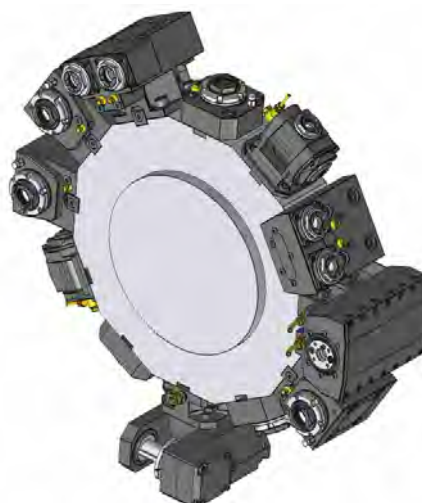
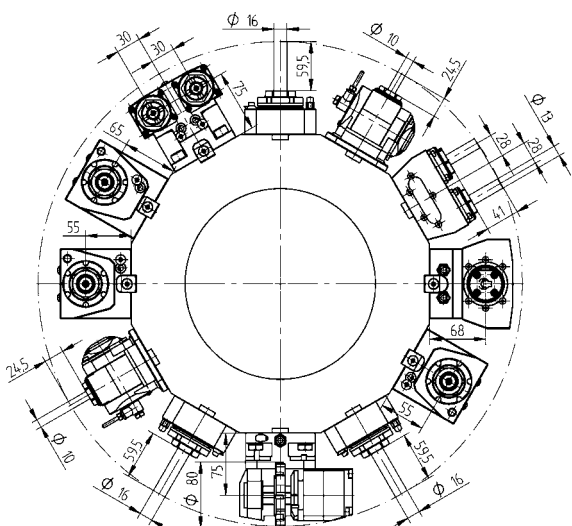
**Cut-off holder**  
 SH 32 48-99637
- 

**Cut-off holder, HP-IC**  
 SH 32 48-102276R IC 80 bar  
 SH 32 48-102276L IC 80 bar
- 


**Cut-off holder, adjustable**  
 SH 32 48-110366 EC
- 

**Cut-off holder, adjustable, HP-IC**  
 SH 32 48-109656L IC 80 bar  
 343-810100L87  
 SH 32 48-109656R IC 80 bar  
 343-810100R87
- 




**Combination toolholder, double**  
 Ø 25 48-108596 IC 80 bar  
 Ø 1" 48-108597 IC 80 bar






Driven Toolholders - QuickFlex®

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**Straight drill/milling unit**

<b>ER-25 QF</b>	420125022-55	1:1	EC
	 0067725000		
<b>ER-25 QF</b>	420125023-55	1:1	IC 80 bar
	 0067725000		
- 



**Right angle drill/milling unit, LF=55**

<b>ER-25 QF</b>	420525087-55	1:1	EC
	 0067725000		
<b>ER-25 QF</b>	420525088-55	1:1	IC 80 bar
	 0067725000		
- 


**Right angle drill/milling unit, LF=65**

<b>ER-25 QF</b>	420525085-55	1:1	EC
	 0067725000		
<b>ER-25 QF</b>	420525086-55	1:1	IC 80 bar
	 0067725000		
- 


**Right angle drill/milling unit, both sides, LF=55**

<b>ER-25 QF</b>	420525069-55	1:1	EC
	 0067725000		
- 




**Right angle drill/milling unit, both sides, LF=65**

<b>ER-25 QF</b>	420525077-55	1:1	EC
	 0067725010		




Driven Toolholders - Enhanced Program

- 









**Straight drill/milling unit**

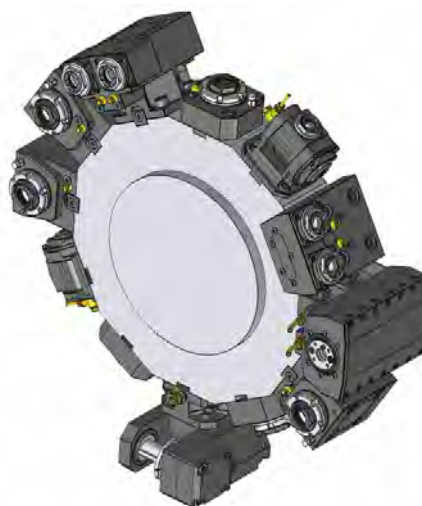
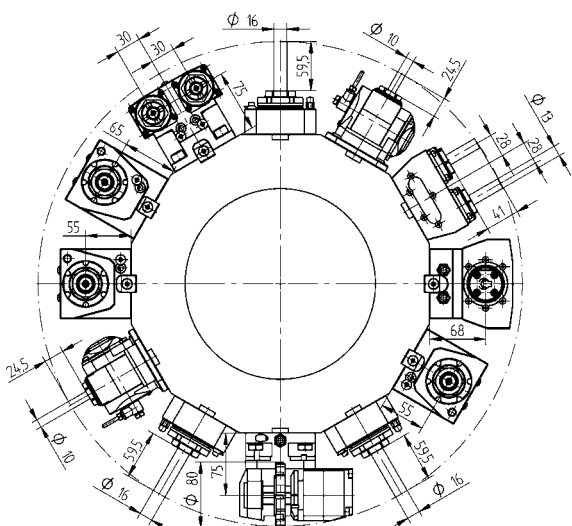
<b>ER 32</b>	410120002-55	1:1	EC
	 0067825000		
<b>ER 32</b>	410120003-55	1:1	IC 80 bar
	 0067825000		
- 

**Straight milling unit**

<b>Ø 22</b>	410222002-55	1:1	EC
	 00675000483		
<b>Ø 3/4"</b>	410219000-55	1:1	EC
	 00675000854		
- 

**Straight offset drill/milling unit**

<b>ER 25</b>	410116027-55	1:1	EC
	 00675000932		
<b>ER 25</b>	410116028-55	1:1	IC 80 bar
	 00675000932		
<b>ER 20</b>	410113006-55	1:2	EC
	 00675000939		
<b>ER 20</b>	410113004-55	1:2	IC 80 bar
	 00675000939		
<b>ER 16</b>	410410000-55	1:3	EC
	 00675000937		
<b>ER 16</b>	410410001-55	1:3	IC 80 bar
	 00675000937		
<b>ER 25</b>	410116021-55	2:1	EC
	 00675000932		
<b>ER 25</b>	410116022-55	2:1	IC 80 bar
	 00675000932		



Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



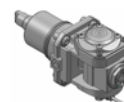
**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



**Slitting saw unit**

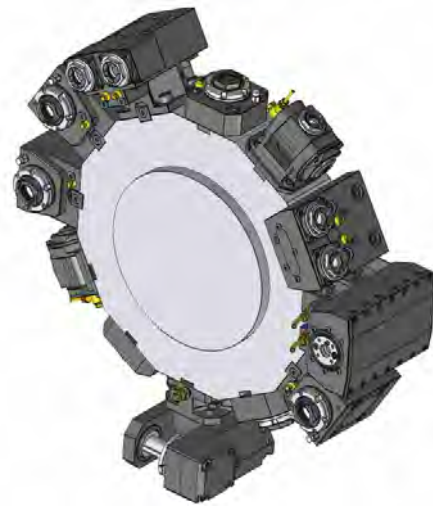
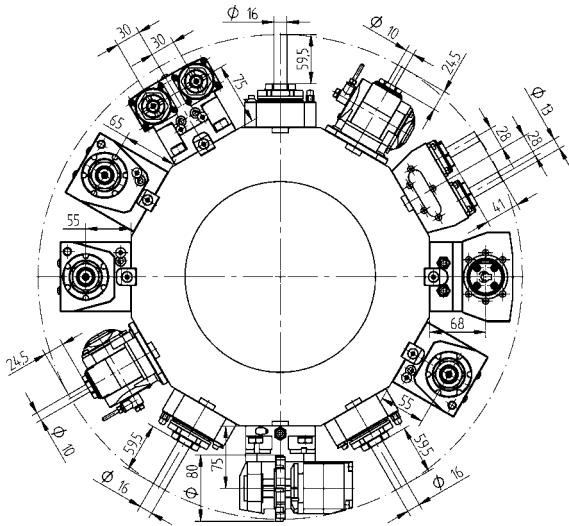
<b>Type 14-2</b>	411500000-55	2.73:1	EC
	00675000489		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		



**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002001-55	1:1	EC
	00675000944		






Driven Toolholders - Enhanced Program



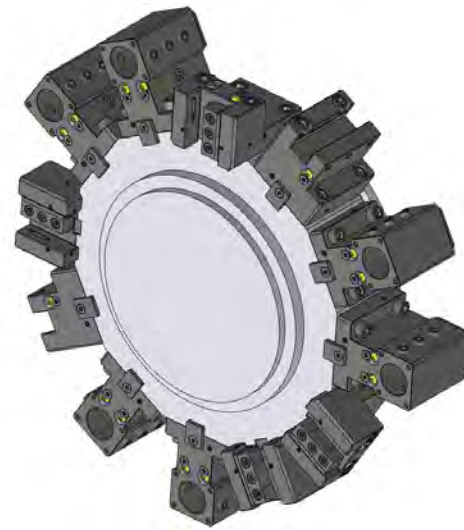
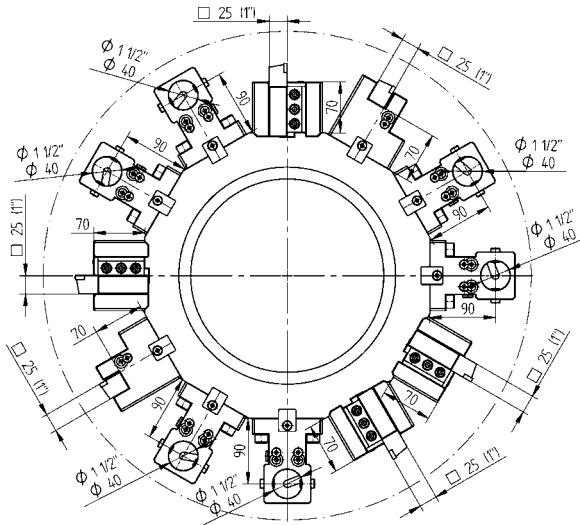
**2-spindle - Right angle drill/milling unit, Y axis**

**ER 20**    413502012-55    1:1    EC  
 00675000944



**Broaching unit for ID and OD**

**TN765050** 414532003-55    1:1    EC



Static Toolholders - Standard Program

Static Toolholders - Enhanced Program



**OD cutting holder, HP-IC**

- 25**      48-107657-HP    IC 80 bar
- 1"**      48-107658-HP    IC 80 bar



**Face cutting holder, HP-IC**

- 25**      48-113236-HP    IC 80 bar
- 1"**      48-113237-HP    IC 80 bar



**Combination toolholder**

- Ø 40**      48-107659
  - 241140020 ER32
  - 241140026 ER40
- Ø 1 1/2"**    48-107660
  - 2411150020 ER32



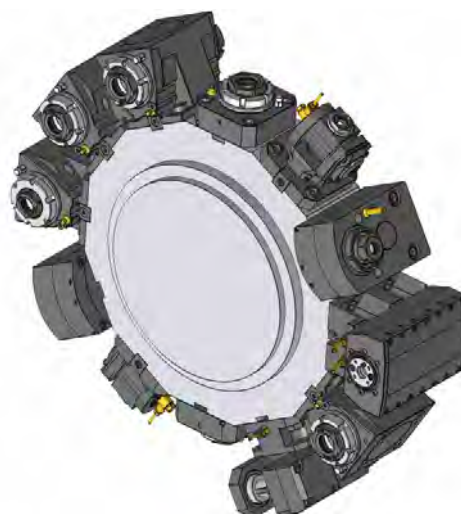
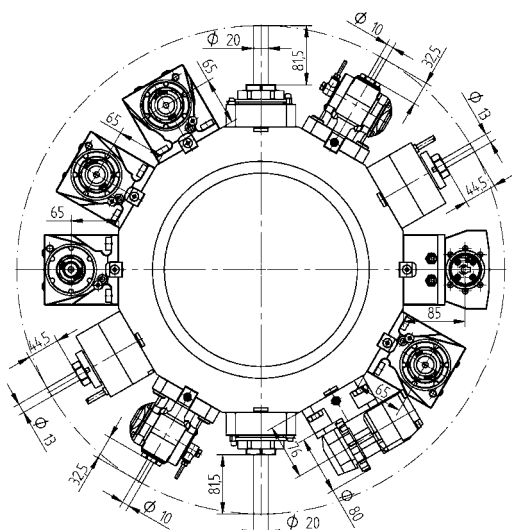
**Cut-off holder**

- SH 32**    48-100204




**Cut-off holder, HP-IC**

- SH 32**    48-102279R      IC 80 bar
- SH 32**    48-102279L      IC 80 bar






Driven Toolholders - QuickFlex®




Driven Toolholders - Enhanced Program

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**Straight drill/milling unit**


<b>ER-32 QF</b>	420132019-65	1:1	EC
	 0067732000		
<b>ER-32 QF</b>	420132020-65	1:1	IC 80 bar
	 0067732000		
- 

**Right angle drill/milling unit**






<b>ER-32 QF</b>	420532025-65	1:1	EC
	 0067732000		
<b>ER-32 QF</b>	420532026-65	1:1	IC 80 bar
	 0067732000		
- 

**Right angle drill/milling unit, both sides**






<b>ER-32 QF</b>	420532043-65	1:1	EC
	 0067732000		

- 





**Straight offset drill/milling unit**

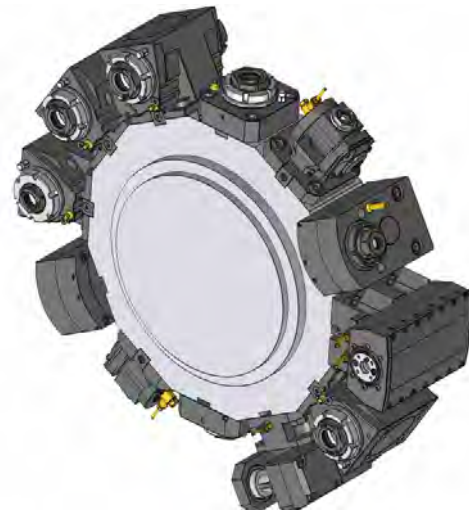
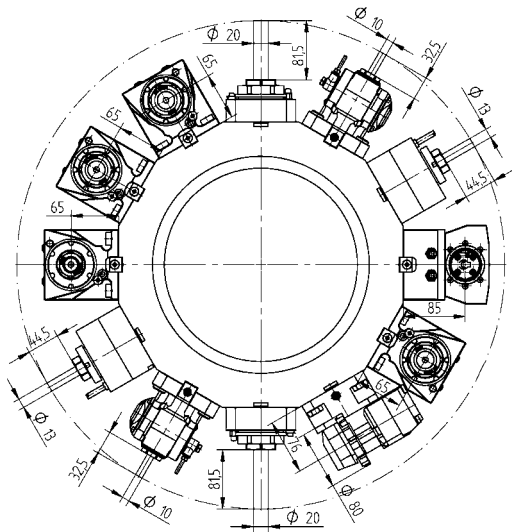
<b>ER 32</b>	410120030-65	1:1	EC
	 00675000958		
<b>ER 32</b>	410120031-65	1:1	IC 80 bar
	 00675000958		
<b>ER 20</b>	410113002-65	1:2	EC
	 00675000591		
<b>ER 20</b>	410113003-65	1:2	IC 80 bar
	 00675000591		
- 

**Right angle drill/milling unit**

<b>ER-25 QF</b>	420525014-65	1:2	EC
	 0067725001		
<b>ER-25 QF</b>	420525015-65	1:2	IC 80 bar
	 0067725001		
<b>ER-32 QF</b>	420532031-65	2:1	EC
	 0067732000		
<b>ER-32 QF</b>	420532032-65	2:1	IC 80 bar
	 0067732000		
- 

**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010000-65	1:1	EC
	 00675000902		
<b>ER 16</b>	411010001-65	1:1	IC 80 bar
	 00675000902		
<b>ER 11</b>	411007001-65	1:2	EC
	 00675000914		
<b>ER 11</b>	411007000-65	1:2	IC 80 bar
	 00675000914		




Driven Toolholders - Enhanced Program





**Offset slitting saw unit**


**Type 14-2** 411500001-65 2.73:1 EC


00675000448


 160016142 Ø 16


 160022142 Ø 22

 160027142 Ø 27

 160015142 Ø 5/8"

 160019142 Ø 3/4"

 160023142 Ø 7/8"

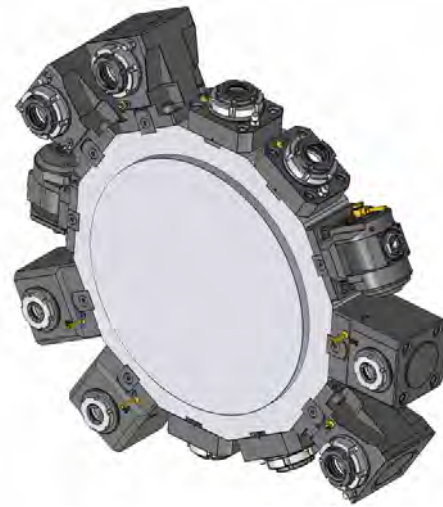
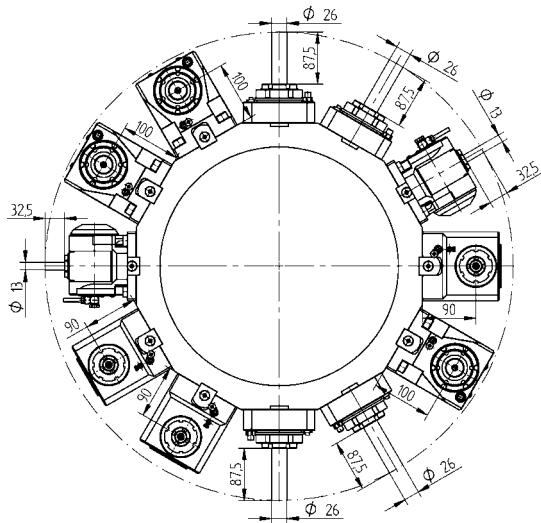
 160025142 Ø 1"



**Broaching unit for ID and OD**

**TN765050** 414532003-65 1:1 EC





Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-40 QF** 420140010-75 1:1 EC  
 0067740000

**ER-40 QF** 420140011-75 1:1 IC 80 bar  
 0067740000



**Right angle drill/milling unit**

**ER-40 QF** 420540010-75 1:1 EC  
 0067740000

**ER-40 QF** 420540011-75 1:1 IC 80 bar  
 0067740000

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit**

**ER 25** 410516000-75 1:2 EC  
 00675000897

**ER 25** 410516001-75 1:2 IC 80 bar  
 00675000897



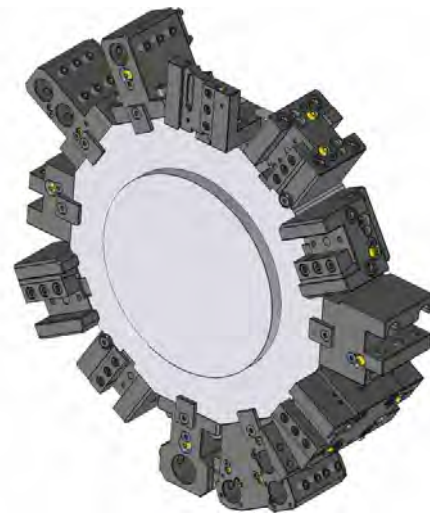
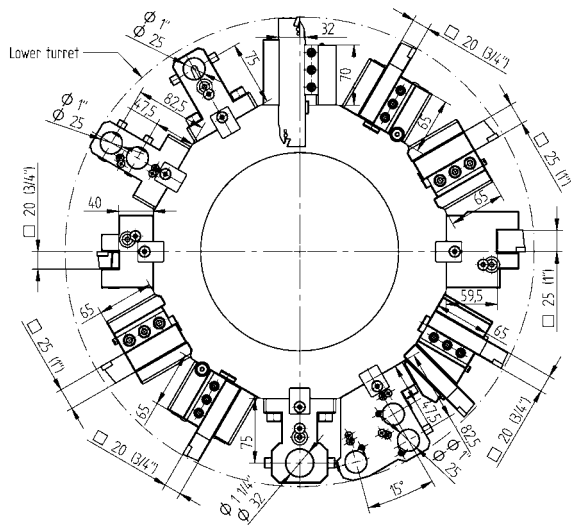
**Adjustable angle drill/milling unit**

**ER 20** 411013000-75 1:1 EC  
 00675000928







**ER 20** 411013001-75 1:1 IC 80 bar  
 00675000928

**ER 16** 411010000-75 1:2 EC  
 00675000936









**ER 16** 411010001-75 1:2 IC 80 bar  
 00675000936

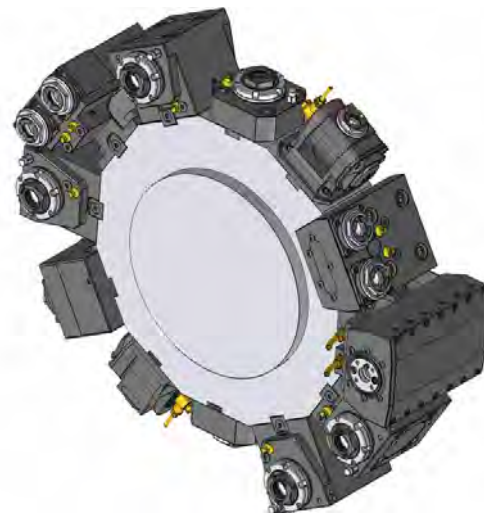
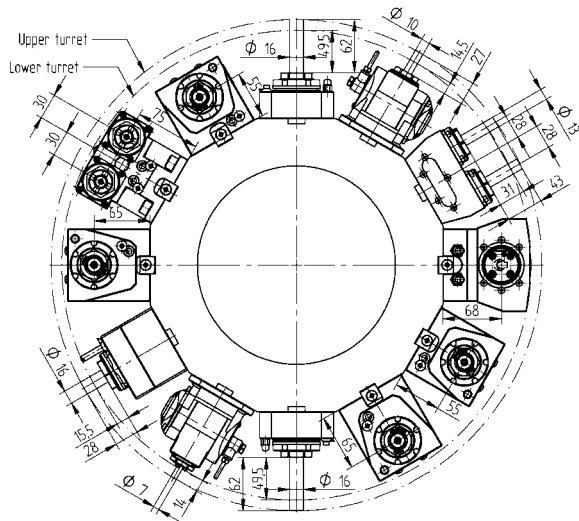


Static Toolholders - Standard Program

	<b>OD cutting holder</b>		
	20	48-108585	
	3/4"	48-108586	
	25	48-106720	
	<b>OD cutting holder, HP-IC</b>		
	25	48-106720-HP	IC 80 bar
	1"	48-106730-HP	IC 80 bar
	<b>OD cutting holder, both sides</b>		
	20	48-108460	
	3/4"	48-108588	
	<b>Face cutting holder</b>		
	20	48-108590	
	3/4"	48-108591	
	<b>Face cutting holder</b>		
	25	48-107758	
	1"	48-107759	
	<b>Combination toolholder</b>		
	Ø 25	48-107842	
	Ø 1"	48-107879	
	Ø 32	48-106727	
	1 1/4"	48-106734	

Static Toolholders - Enhanced Program

	<b>OD cutting holder, double, 24 station (only for turret size 340)</b>		
	20	48-108592	EC
	3/4"	48-108593	EC
	<b>OD cutting holder, both sides, double, 24 station (only for turret size 340)</b>		
	20	48-108461	EC
	3/4"	48-108595	EC
	<b>Cut-off holder</b>		
	SH 32	48-99637	
	<b>Cut-off holder, HP-IC</b>		
	SH 32	48-102276R	IC 80 bar
	SH 32	48-102276L	IC 80 bar
	<b>Cut-off holder, adjustable</b>		
	SH 32	48-110366	EC
	<b>Cut-off holder, adjustable, HP-IC</b>		
	SH 32	48-109656L	IC 80 bar
		343-810100L87	
	SH 32	48-109656R	IC 80 bar
		343-810100R87	
	<b>Combination toolholder, double</b>		
	Ø 25	48-108596	IC 80 bar
	Ø 1"	48-108597	IC 80 bar
	<b>Combination toolholder, universal, triple, 24 station (only for turret size 340)</b>		
	Ø 25	48-108462	IC 80 bar
	Ø 1"	48-108599	IC 80 bar



Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-25 QF** 420125022-55 1:1 EC  
 0067725000

**ER-25 QF** 420125023-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, LF=55**

**ER-25 QF** 420525087-55 1:1 EC  
 0067725000

**ER-25 QF** 420525088-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, LF=65**

**ER-25 QF** 420525085-55 1:1 EC  
 0067725000

**ER-25 QF** 420525086-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, both sides, LF=55**

**ER-25 QF** 420525069-55 1:1 EC  
 0067725000



**Right angle drill/milling unit, both sides, LF=65**

**ER-25 QF** 420525077-55 1:1 EC  
 0067725010

Driven Toolholders - Enhanced Program



**Straight drill/milling unit**

**ER 32** 410120002-55 1:1 EC  
 0067825000

**ER 32** 410120003-55 1:1 IC 80 bar  
 0067825000



**Straight milling unit**

**Ø 22** 410222002-55 1:1 EC  
 00675000483

**Ø 3/4"** 410219000-55 1:1 EC  
 00675000854



**Straight offset drill/milling unit**

**ER 25** 410116027-55 1:1 EC  
 00675000932

**ER 25** 410116028-55 1:1 IC 80 bar  
 00675000932

**ER 20** 410113006-55 1:2 EC  
 00675000939

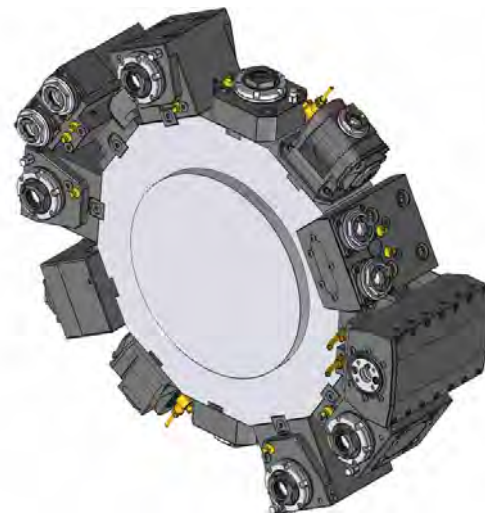
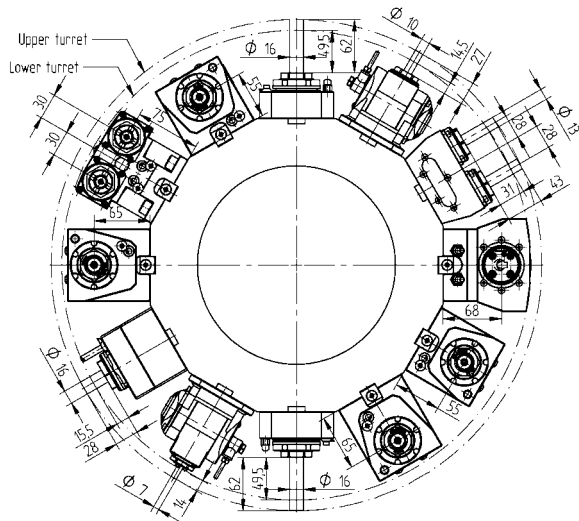
**ER 20** 410113004-55 1:2 IC 80 bar  
 00675000939

**ER 16** 410410000-55 1:3 EC  
 00675000937

**ER 16** 410410001-55 1:3 IC 80 bar  
 00675000937

**ER 25** 410116021-55 2:1 EC  
 00675000932

**ER 25** 410116022-55 2:1 IC 80 bar  
 00675000932



Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		

Driven Toolholders - Enhanced Program



**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002001-55	1:1	EC
	00675000944		



**2-spindle - Right angle drill/milling unit, Y axis**

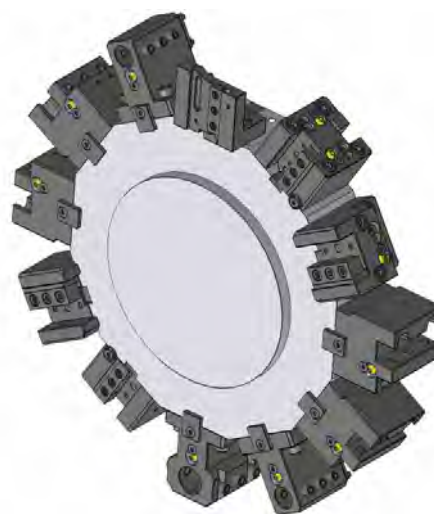
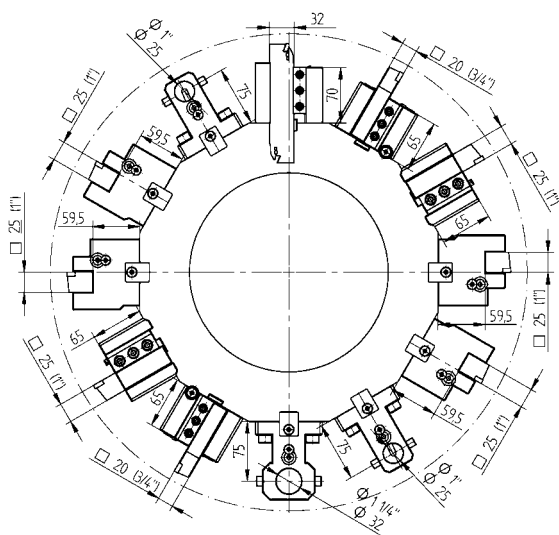
<b>ER 20</b>	413502012-55	1:1	EC
	00675000944		




**Broaching unit for ID and OD**


<b>TN765050</b>	414532003-55	1:1	EC
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Static Toolholders - Standard Program

- 

**OD cutting holder**  
 20 48-108585  
 3/4" 48-108586  
 25 48-106720
- 


**OD cutting holder, HP-IC**  
 25 48-106720-HP IC 80 bar  
 1" 48-106730-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-108460  
 3/4" 48-108588
- 


**Face cutting holder**  
 25 48-107758  
 1" 48-107759
- 


**Combination toolholder**  
 Ø 25 48-107842  
 Ø 1" 48-107879  
 Ø 32 48-106727  
 1 1/4" 48-106734

Static Toolholders - Enhanced Program

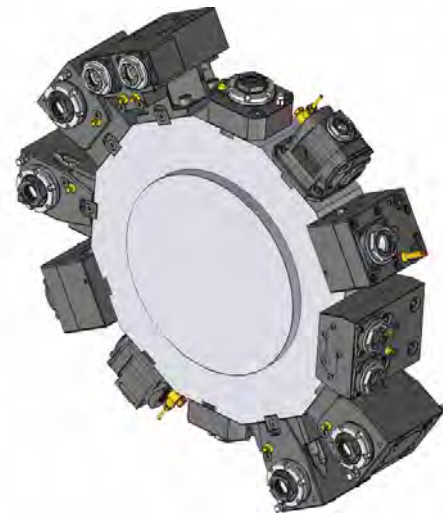
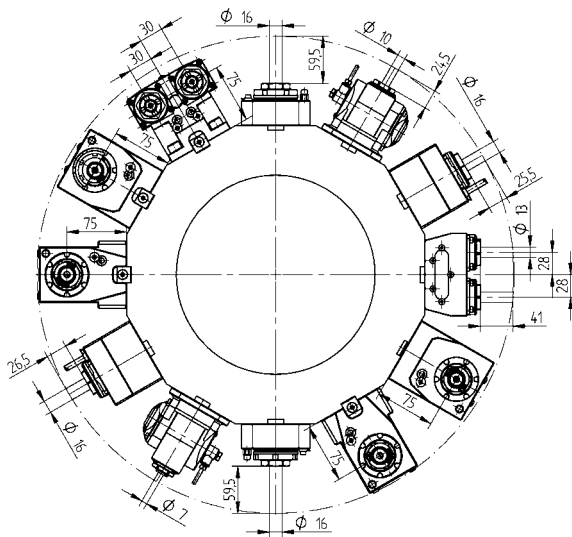
- 

**Cut-off holder**  
 SH 32 48-99637
- 

**Cut-off holder, HP-IC**  
 SH 32 48-102276R IC 80 bar  
 SH 32 48-102276L IC 80 bar
- 

**Cut-off holder, adjustable**  
 SH 32 48-110366 EC
- 

**Cut-off holder, adjustable, HP-IC**  
 SH 32 48-109656L IC 80 bar  
 343-810100L87  
 SH 32 48-109656R IC 80 bar  
 343-810100R87



Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-25 QF** 420125022-55 1:1 EC  
 0067725000

**ER-25 QF** 420125023-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, LF=75**

**ER-25 QF** 420525078-55 1:1 EC  
 0067725000

**ER-25 QF** 420525079-55 1:1 IC 80 bar  
 0067725000



**Right angle drill/milling unit, both sides, LF=75**

**ER-25 QF** 420525080-55 1:1 EC  
 0067725000

Driven Toolholders - Enhanced Program



**Straight drill/milling unit**

**ER 32** 410120002-55 1:1 EC  
 0067825000

**ER 32** 410120003-55 1:1 IC 80 bar  
 0067825000



**Straight milling unit**

**Ø 22** 410222002-55 1:1 EC  
 00675000483

**Ø 3/4"** 410219000-55 1:1 EC  
 00675000854



**Straight offset drill/milling unit**

**ER 25** 410116027-55 1:1 EC  
 00675000932

**ER 25** 410116028-55 1:1 IC 80 bar  
 00675000932

**ER 20** 410113006-55 1:2 EC  
 00675000939

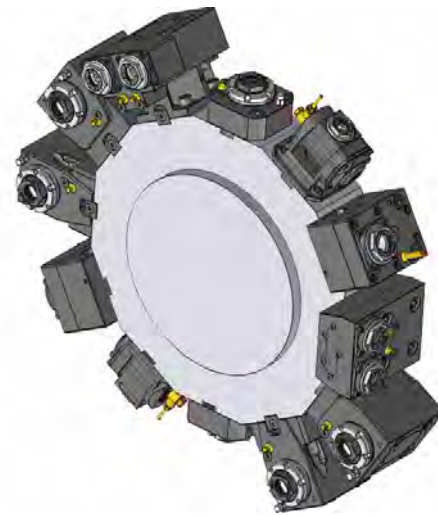
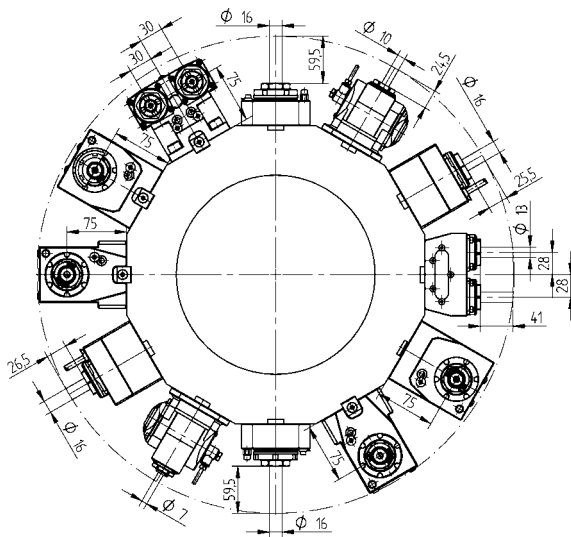
**ER 20** 410113004-55 1:2 IC 80 bar  
 00675000939

**ER 16** 410410000-55 1:3 EC  
 00675000937

**ER 16** 410410001-55 1:3 IC 80 bar  
 00675000937

**ER 25** 410116021-55 2:1 EC  
 00675000932

**ER 25** 410116022-55 2:1 IC 80 bar  
 00675000932



Driven Toolholders - Enhanced Program

Driven Toolholders - Enhanced Program



Right angle drill/milling unit, LF=75				
ER 32	410520021-55	1:1	EC	
	00675000592			
ER 32	410520011-55	1:1	IC 80 bar	
	00675000592			
ER-20 QF	420520027-55	1:2	EC	
	0067720001			
ER-20 QF	420520028-55	1:2	IC 80 bar	
	0067720001			
ER 16	410810024-55	1:3	EC	
	00675000841			
ER 16	410810025-55	1:3	IC 80 bar	
	00675000841			
ER 32	410520022-55	2:1	EC	
	00675000592			
ER 32	410520023-55	2:1	IC 80 bar	
	00675000592			



Slitting saw unit			
Type 14-2	411500000-55	2.73:1	EC
	00675000489		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		



Right angle milling unit with combination mill arbor DIN 6358, LF=75				
Ø 22	410622014-55	1:1	EC	
	00675000483			
Ø 22	410622008-55	2:1	EC	
	00675000483			
Ø 3/4"	410619009-55	1:1	EC	
	00675000483			



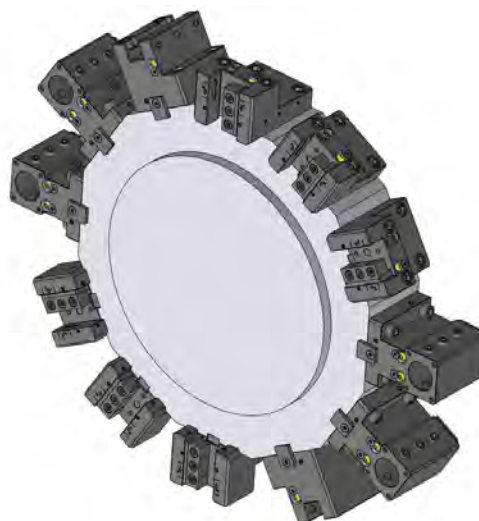
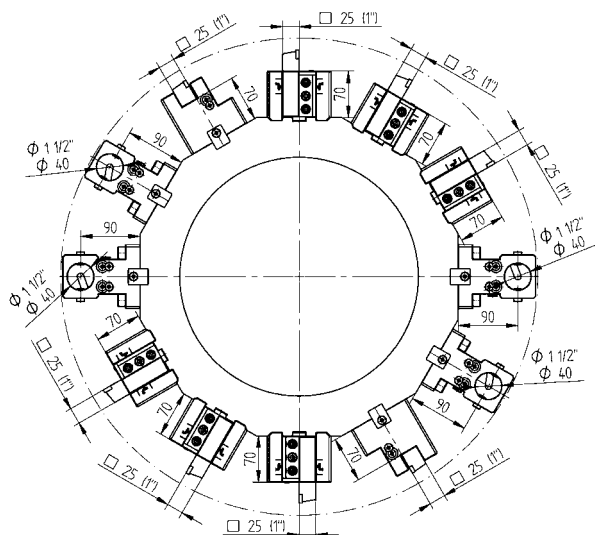
Straight drill/milling unit, double, Y axis			
ER 20	413002001-55	1:1	EC
	00675000944		



2-spindle - Right angle drill/milling unit, Y axis			
ER 20	413502012-55	1:1	EC
	00675000944		




Adjustable angle drill/milling unit				
ER 16	411010001-55	1:1	EC	
	00675000902			
ER 16	411010002-55	1:1	IC 80 bar	
	00675000902			
ER 11	411007003-55	1:2	EC	
	00675000914			
ER 11	411007004-55	1:2	IC 80 bar	
	00675000914			




Static Toolholders - Standard Program


Static Toolholders - Enhanced Program

- 




**OD cutting holder, HP-IC**


<b>25</b>	48-107657-HP	IC 80 bar
<b>1"</b>	48-107658-HP	IC 80 bar
  
- 

**Face cutting holder, HP-IC**


<b>25</b>	48-113236-HP	IC 80 bar
<b>1"</b>	48-113237-HP	IC 80 bar
  
- 

**Combination toolholder**

<b>Ø 40</b>	48-107659	
	 241140020 ER32	
	 241140026 ER40	
<b>Ø 1 1/2"</b>	48-107660	
	 2411150020 ER32	

- 

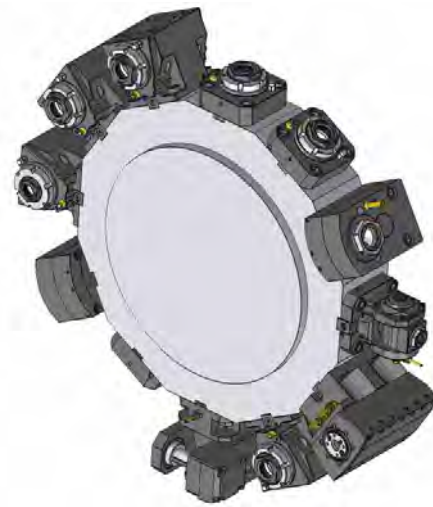
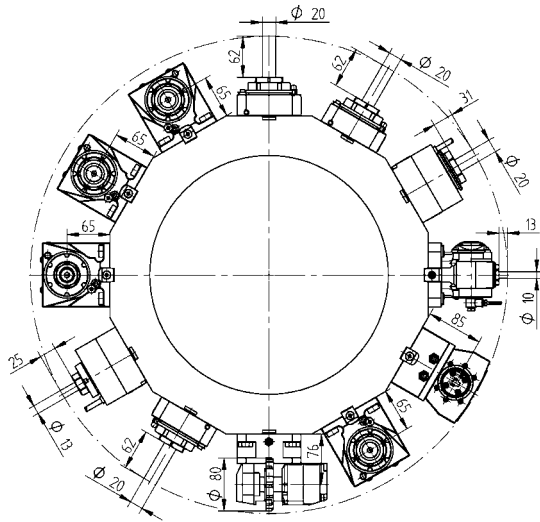
**Cut-off holder**

<b>SH 32</b>	48-100204	
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- 

**Cut-off holder, HP-IC**

<b>SH 32</b>	48-102279R	IC 80 bar
<b>SH 32</b>	48-102279L	IC 80 bar





Driven Toolholders - QuickFlex®

Driven Toolholders - Enhanced Program



**Straight drill/milling unit**

- ER-32 QF** 420132019-65 1:1 EC  
0067732000
- ER-32 QF** 420132020-65 1:1 IC 80 bar  
0067732000



**Right angle drill/milling unit**

- ER-32 QF** 420532025-65 1:1 EC  
0067732000
- ER-32 QF** 420532026-65 1:1 IC 80 bar  
0067732000



**Right angle drill/milling unit, both sides**

- ER-32 QF** 420532043-65 1:1 EC  
0067732000



**Straight offset drill/milling unit**

- ER 32** 410120030-65 1:1 EC  
00675000958
- ER 32** 410120031-65 1:1 IC 80 bar  
00675000958
- ER 20** 410113002-65 1:2 EC  
00675000591
- ER 20** 410113003-65 1:2 IC 80 bar  
00675000591



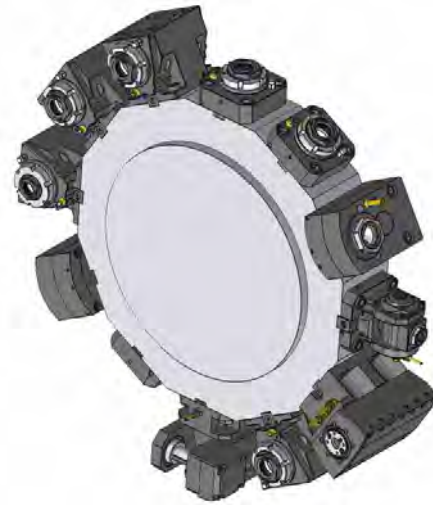
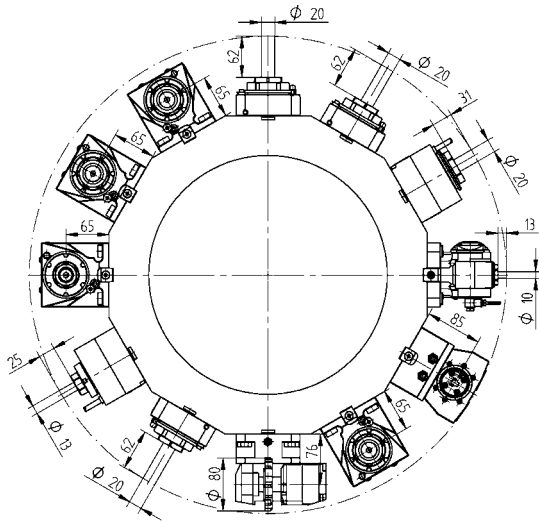
**Right angle drill/milling unit**

- ER-25 QF** 420525014-65 1:2 EC  
0067725001
- ER-25 QF** 420525015-65 1:2 IC 80 bar  
0067725001
- ER-32 QF** 420532031-65 2:1 EC  
0067732000
- ER-32 QF** 420532032-65 2:1 IC 80 bar  
0067732000



**Adjustable angle drill/milling unit**

- ER 16** 411010000-65 1:1 EC  
00675000902
- ER 16** 411010001-65 1:1 IC 80 bar  
00675000902
- ER 11** 411007001-65 1:2 EC  
00675000914
- ER 11** 411007000-65 1:2 IC 80 bar  
00675000914





Driven Toolholders - Enhanced Program





**Offset slitting saw unit**


**Type 14-2** 411500001-65 2.73:1 EC


 00675000448


 160016142 Ø 16


 160022142 Ø 22

 160027142 Ø 27

 160015142 Ø 5/8"

 160019142 Ø 3/4"

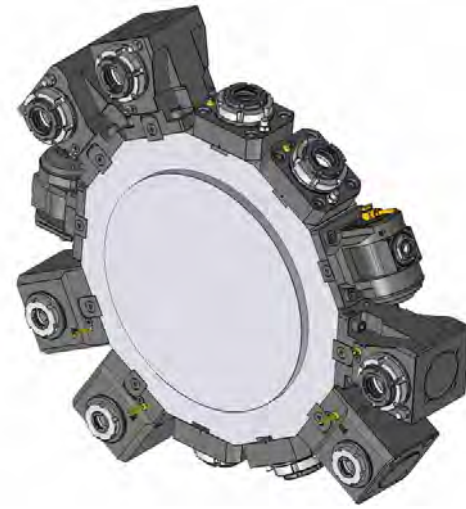
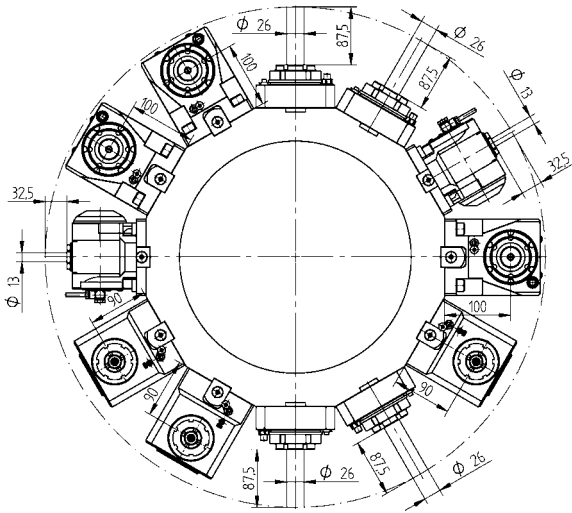
 160023142 Ø 7/8"

 160025142 Ø 1"



**Broaching unit for ID and OD**

**TN765050** 414532003-65 1:1 EC



Driven Toolholders - QuickFlex®



**Straight drill/milling unit**

**ER-40 QF** 420140010-75 1:1 EC  
 0067740000

**ER-40 QF** 420140011-75 1:1 IC 80 bar  
 0067740000



**Right angle drill/milling unit**

**ER-40 QF** 420540010-75 1:1 EC  
 0067740000

**ER-40 QF** 420540011-75 1:1 IC 80 bar  
 0067740000

Driven Toolholders - Enhanced Program



**Right angle drill/milling unit**

**ER 25** 410516000-75 1:2 EC  
 00675000897

**ER 25** 410516001-75 1:2 IC 80 bar  
 00675000897



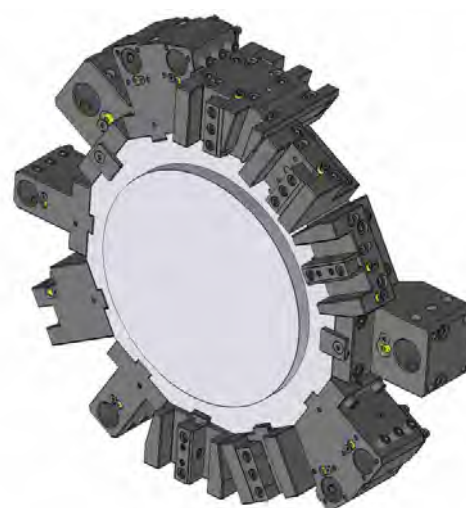
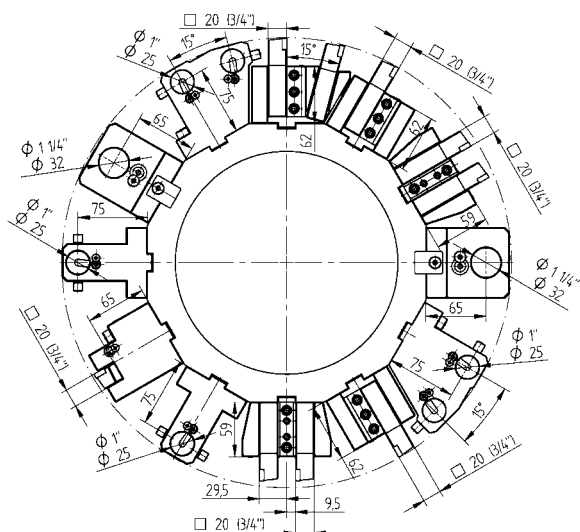
**Adjustable angle drill/milling unit**

**ER 20** 411013000-75 1:1 EC  
 00675000928


**ER 20** 411013001-75 1:1 IC 80 bar  
 00675000928


**ER 16** 411010000-75 1:2 EC  
 00675000936


**ER 16** 411010001-75 1:2 IC 80 bar  
 00675000936





Static Toolholders - Standard Program


- 

**OD cutting holder**  
 20 48-101470  
 Z90-86304-00  
 3/4" 48-104496
- 

**OD cutting holder, HP-IC**  
 20 48-101470-HP IC 80 bar  
 3/4" 48-104496-HP IC 80 bar
- 


**OD cutting holder, both sides**  
 20 48-101471  
 Z90-86303-00  
 3/4" 48-104755
- 


**Face cutting holder**  
 20 48-102352  
 Z90-86301-00  
 3/4" 48-104735
- 


**Combination toolholder, LF=75**  
 Ø 25 48-101472  
 Z90-86302-00  
 Ø 1" 48-104526
- 


**Combination toolholder**  
 Ø 32 48-107155  
 Ø 1 1/4" 48-107260


Static Toolholders - Enhanced Program

- 

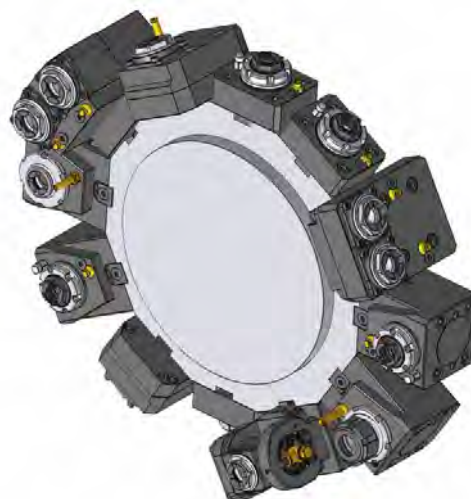
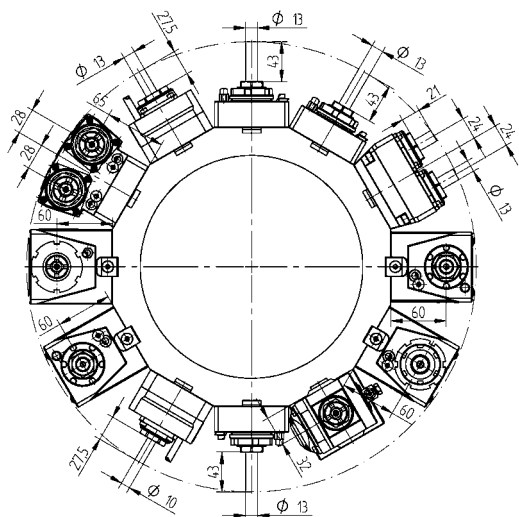
**OD cutting holder, double, Y axis**  
 20 48-101473  
 Z90-86548-00  
 3/4" 48-104523
- 

**OD cutting holder, both sides, double, 24 station (only for turret size 300)**  
 20 48-107973 EC  
 3/4" 48-108110 EC
- 

**Cut-off holder**  
 SH 26 48-100419  
 Z90-86307-00
- 

**Cut-off holder, HP-IC**  
 SH 26 48-102274R IC 80 bar  
 SH 26 48-102274L IC 80 bar  
 SH 32 48-112233R IC 80 bar  
 343-810100R95  
 SH 32 48-112233L IC 80 bar  
 343-810100L95
- 

**Combination toolholder, universal, double, 24 station (only for turret size 300)**  
 Ø 25 48-107985 IC 80 bar  
 Ø 1" 48-108111 IC 80 bar



Driven Toolholders - QuickFlex®

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**Straight drill/milling unit**

<b>ER-20 QF</b>	420120010-44	1:1	EC
	Z90-86300-00		
	 0067720000		
<b>ER-20 QF</b>	420120011-44	1:1	IC 80 bar
	Z90-86300-00		
	 0067720000		
  
- 


**Right angle drill/milling unit, LF=60**

<b>ER-20 QF</b>	420520010-44	1:1	EC
	Z90-86299-00		
	 0067720000		
<b>ER-20 QF</b>	420520011-44	1:1	IC 80 bar
	Z90-86299-00		
	 0067720000		
  
- 


**Right angle drill/milling unit, both sides, LF=60**

<b>ER-20 QF</b>	420520012-44	1:1	EC
	Z90-86299-00		
	 0067720000		

Driven Toolholders - Enhanced Program

- 




**Straight drill/milling unit**

<b>ER 25</b>	410116004-44	1:1	EC
	Z90-86305-00		
	 00675000720		
<b>ER 25</b>	410116002-44	1:1	IC 80 bar
	Z90-86305-00		
	 00675000720		
  
- 

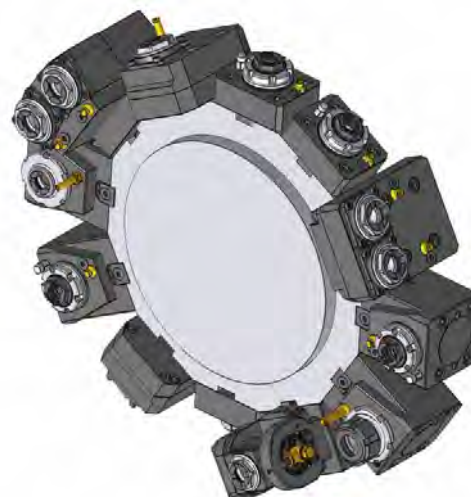
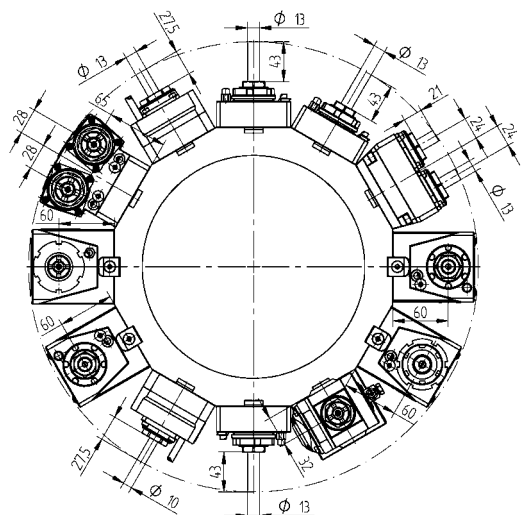
**Straight offset drill/milling unit**

<b>ER 20</b>	410113004-44	1:2	EC
	Z90-89788-00		
	 00675000939		
<b>ER 16</b>	410110002-44	1:3	EC
	Z90-89788-00		
	 00675000937		
<b>ER 25</b>	410116005-44	1.5:1	EC
	Z90-89788-00		
	 00675000932		
  
- 

**Right angle drill/milling unit, LF=60**

<b>ER 25</b>	410516005-44	1:1	EC
	Z90-86306-00		
	 00675000720		
<b>ER 25</b>	410516006-44	1:1	IC 80 bar
	Z90-86306-00		
	 00675000720		
<b>ER 20</b>	410513002-44	1:2	EC
	Z90-89789-00		
	 00675000833		
<b>ER 20</b>	410513003-44	1:2	IC 80 bar
	Z90-89789-00		
	 00675000833		
<b>ER 16</b>	410810006-44	1:3	EC
	Z90-89789-00		
	 00675000841		
<b>ER 16</b>	410810007-44	1:3	IC 80 bar
	Z90-89789-00		
	 00675000841		
<b>ER 25</b>	410516002-44	2:1	EC
	Z90-86306-00		
	 00675000720		
<b>ER 25</b>	410516003-44	2:1	IC 80 bar
	Z90-86306-00		
	 00675000720		





Driven Toolholders - Enhanced Program



**Right angle milling unit with combination mill arbor DIN 6358, LF=60**

<b>Ø 22</b>	410622000-44	1:1	EC
	00675000483		
<b>Ø 22</b>	410622001-44	2:1	EC
	00675000483		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010004-44	1:1	EC
	Z90-89787-00		
	00675000902		
<b>ER 16</b>	411010005-44	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007006-44	1:2	EC
	00675000914		
<b>ER 11</b>	411007007-44	1:2	IC 80 bar
	00675000914		



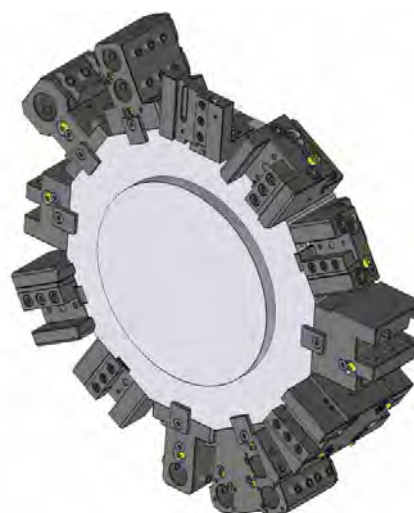
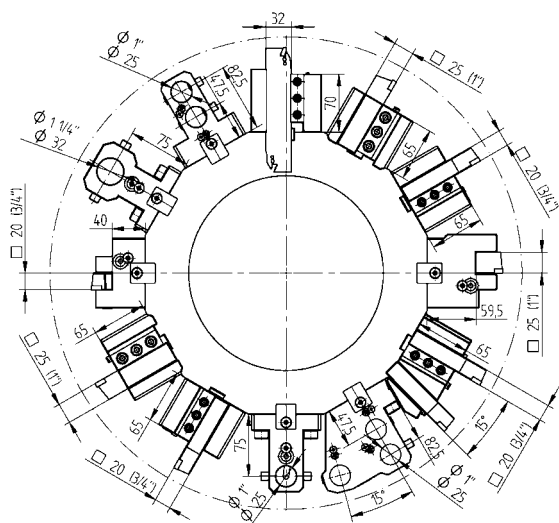
**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002003-44	1:1	EC
	00675000939		
<b>ER 20</b>	413002004-44	1:1	IC 80 bar
	00675000939		









**2-spindle - Right angle drill/milling unit, Y axis**









<b>ER 20</b>	413502004-44	1:1	EC
	00675000939		
<b>ER 20</b>	413502005-44	1:1	IC 80 bar
	00675000939		

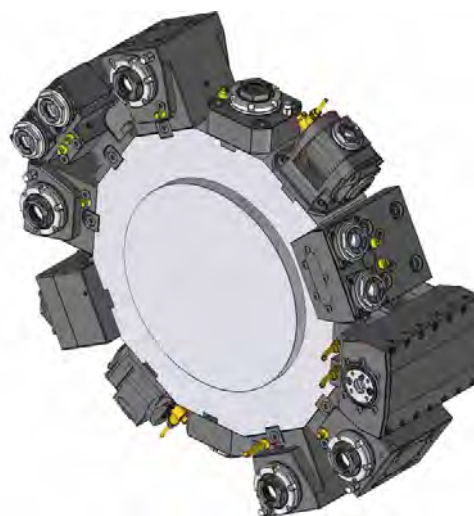
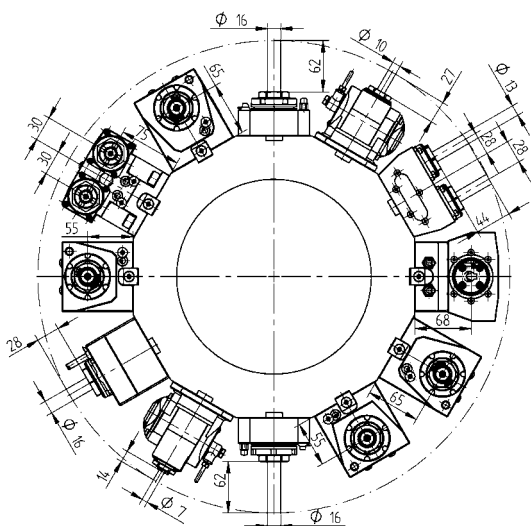


Static Toolholders - Standard Program

	<b>OD cutting holder</b>		
	20	48-108585	
	3/4"	48-108586	
	25	48-106720	
	<b>OD cutting holder, HP-IC</b>		
	25	48-106720-HP	IC 80 bar
	1"	48-106730-HP	IC 80 bar
	<b>OD cutting holder, both sides</b>		
	20	48-108460	
	3/4"	48-108588	
	<b>Face cutting holder</b>		
	20	48-108590	
	3/4"	48-108591	
	<b>Face cutting holder</b>		
	25	48-107758	
	1"	48-107759	
	<b>Combination toolholder</b>		
	Ø 25	48-107842	
	Ø 1"	48-107879	
	Ø 32	48-106727	
	1 1/4"	48-106734	

Static Toolholders - Enhanced Program

	<b>OD cutting holder, double, 24 station (only for turret size 340)</b>		
	20	48-108592	EC
	3/4"	48-108593	EC
	<b>OD cutting holder, both sides, double, 24 station (only for turret size 340)</b>		
	20	48-108461	EC
	3/4"	48-108595	EC
	<b>Cut-off holder</b>		
	SH 32	48-99637	
	<b>Cut-off holder, HP-IC</b>		
	SH 32	48-102276R	IC 80 bar
	SH 32	48-102276L	IC 80 bar
	<b>Cut-off holder, adjustable</b>		
	SH 32	48-110366	EC
	<b>Cut-off holder, adjustable, HP-IC</b>		
	SH 32	48-109656L	IC 80 bar
		343-810100L87	
	SH 32	48-109656R	IC 80 bar
		343-810100R87	
	<b>Combination toolholder, double</b>		
	Ø 25	48-108596	IC 80 bar
	Ø 1"	48-108597	IC 80 bar
	<b>Combination toolholder, universal, triple, 24 station (only for turret size 340)</b>		
	Ø 25	48-108462	IC 80 bar
	Ø 1"	48-108599	IC 80 bar

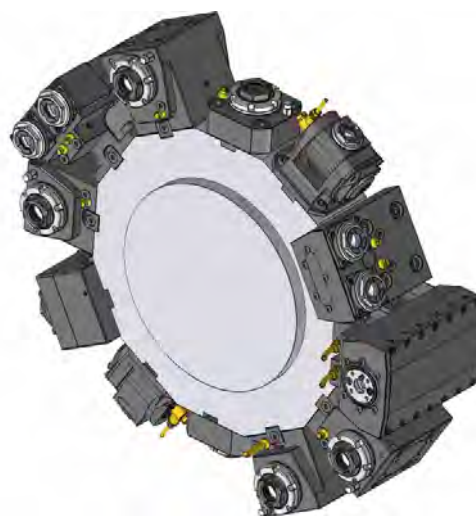
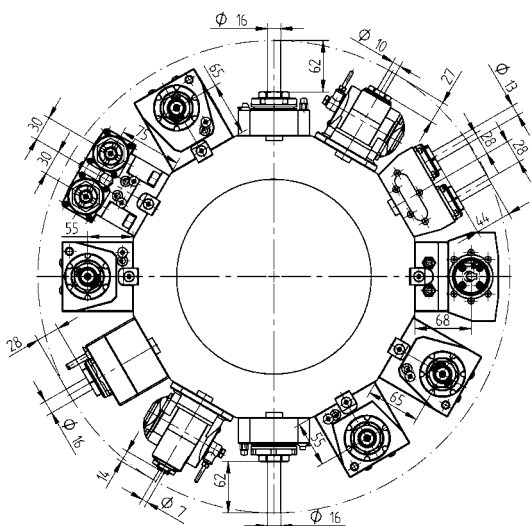


Driven Toolholders - QuickFlex®

	<b>Straight drill/milling unit</b>			
	<b>ER-25 QF</b>	420125022-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420125023-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, LF=55</b>			
	<b>ER-25 QF</b>	420525087-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420525088-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, LF=65</b>			
	<b>ER-25 QF</b>	420525085-55	1:1	EC
		0067725000		
	<b>ER-25 QF</b>	420525086-55	1:1	IC 80 bar
		0067725000		
	<b>Right angle drill/milling unit, both sides, LF=55</b>			
	<b>ER-25 QF</b>	420525069-55	1:1	EC
		0067725000		
	<b>Right angle drill/milling unit, both sides, LF=65</b>			
	<b>ER-25 QF</b>	420525077-55	1:1	EC
		0067725010		

Driven Toolholders - Enhanced Program

	<b>Straight drill/milling unit</b>			
	<b>ER 32</b>	410120002-55	1:1	EC
		0067825000		
	<b>ER 32</b>	410120003-55	1:1	IC 80 bar
		0067825000		
	<b>Straight milling unit</b>			
	<b>Ø 22</b>	410222002-55	1:1	EC
		00675000483		
	<b>Ø 3/4"</b>	410219000-55	1:1	EC
		00675000854		
	<b>Straight offset drill/milling unit</b>			
	<b>ER 25</b>	410116027-55	1:1	EC
		00675000932		
	<b>ER 25</b>	410116028-55	1:1	IC 80 bar
		00675000932		
	<b>ER 20</b>	410113006-55	1:2	EC
		00675000939		
	<b>ER 20</b>	410113004-55	1:2	IC 80 bar
		00675000939		
	<b>ER 16</b>	410410000-55	1:3	EC
		00675000937		
	<b>ER 16</b>	410410001-55	1:3	IC 80 bar
		00675000937		
	<b>ER 25</b>	410116021-55	2:1	EC
		00675000932		
	<b>ER 25</b>	410116022-55	2:1	IC 80 bar
		00675000932		



Driven Toolholders - Enhanced Program



**Right angle drill/milling unit, LF=65**

<b>ER 32</b>	410520045-55	1:1	EC
	0067825000		
<b>ER 32</b>	410520046-55	1:1	IC 80 bar
	0067825000		
<b>ER-20 QF</b>	420520029-55	1:2	EC
	0067720001		
<b>ER-20 QF</b>	420520030-55	1:2	IC 80 bar
	0067720001		
<b>ER 16</b>	410810022-55	1:3	EC
	00675000841		
<b>ER 16</b>	410810023-55	1:3	IC 80 bar
	00675000841		
<b>ER-25 QF</b>	420525055-55	2:1	EC
	0067725000		
<b>ER-25 QF</b>	420525056-55	2:1	IC 80 bar
	0067725000		



**Right angle milling unit with combination mill arbor DIN 6358, LF=65**

<b>Ø 22</b>	410622013-55	1:1	EC
	00675000483		
<b>Ø 22</b>	410622007-55	2:1	EC
	00675000483		
<b>Ø 3/4"</b>	410619008-55	1:1	EC
	00675000483		

Driven Toolholders - Enhanced Program



**Right angle back set drill/milling unit, LF=65**

<b>ER 32</b>	410520007-55	1:1	EC
	00675000592		
<b>ER 32</b>	410520008-55	1:1	IC 80 bar
	00675000592		
<b>ER 32</b>	410520009-55	2:1	EC
	00675000592		
<b>ER 32</b>	410520010-55	2:1	IC 80 bar
	00675000592		



**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010001-55	1:1	EC
	00675000902		
<b>ER 16</b>	411010002-55	1:1	IC 80 bar
	00675000902		
<b>ER 11</b>	411007003-55	1:2	EC
	00675000914		
<b>ER 11</b>	411007004-55	1:2	IC 80 bar
	00675000914		



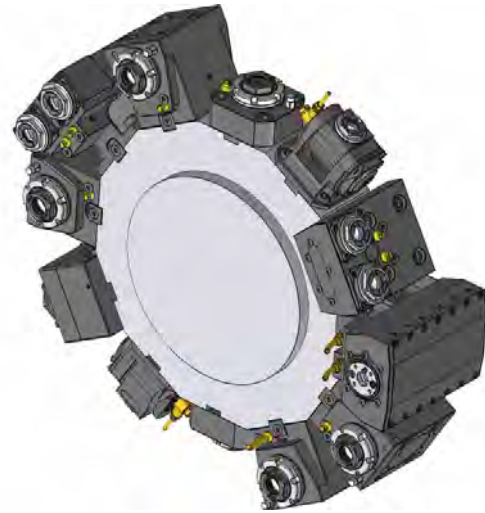
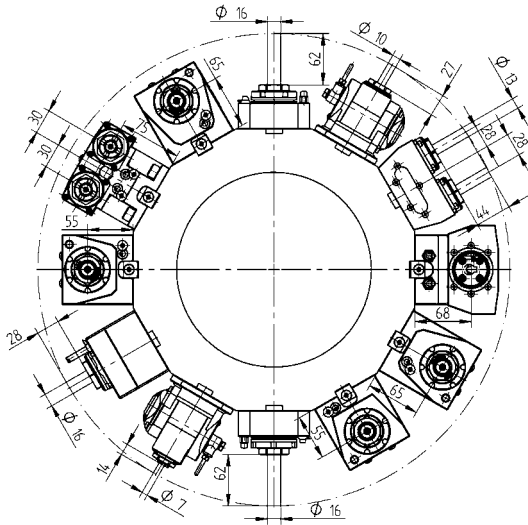
**Slitting saw unit**

<b>Type 14-2</b>	411500000-55	2.73:1	EC
	00675000489		
	160016142 Ø 16		
	160022142 Ø 22		
	160027142 Ø 27		
	160015142 Ø 5/8"		
	160019142 Ø 3/4"		
	160023142 Ø 7/8"		
	160025142 Ø 1"		



**Straight drill/milling unit, double, Y axis**

<b>ER 20</b>	413002001-55	1:1	EC
	00675000944		



Driven Toolholders - Enhanced Program



**2-spindle - Right angle drill/milling unit, Y axis**

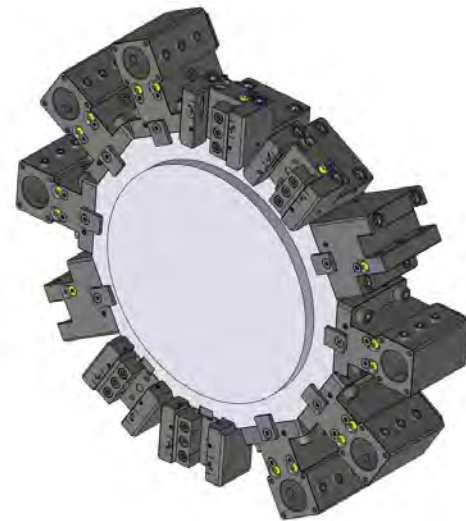
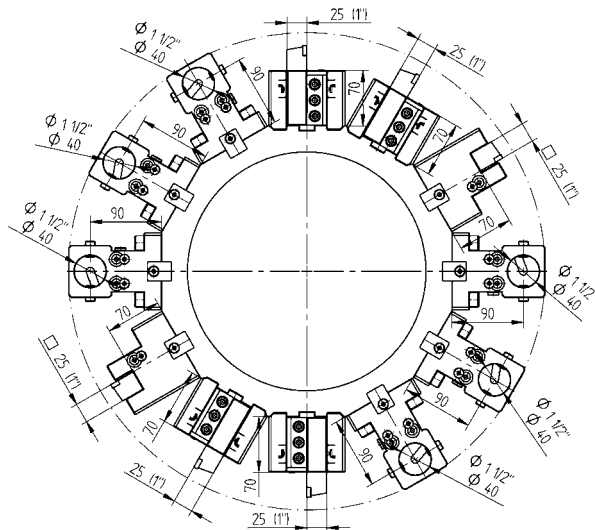
**ER 20** 413502012-55 1:1 EC  
 00675000944



**Broaching unit for ID and OD**


**TN765050** 414532003-55 1:1 EC






Static Toolholders - Standard Program


Static Toolholders - Enhanced Program

- 




**OD cutting holder, HP-IC**


<b>25</b>	48-107657-HP	IC 80 bar
<b>1"</b>	48-107658-HP	IC 80 bar
  
- 

**Face cutting holder, HP-IC**


<b>25</b>	48-113236-HP	IC 80 bar
<b>1"</b>	48-113237-HP	IC 80 bar
  
- 

**Combination toolholder**

<b>Ø 40</b>	48-107659	
	 241140020 ER32	
	 241140026 ER40	
<b>Ø 1 1/2"</b>	48-107660	
	 2411150020 ER32	

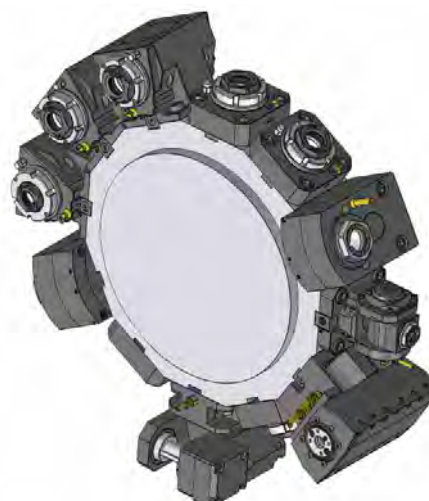
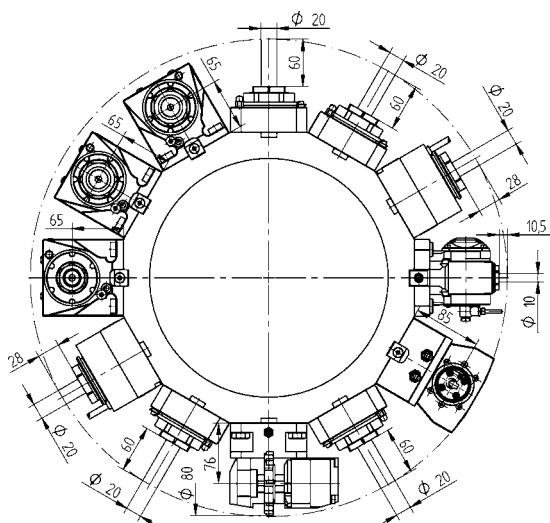
- 

**Cut-off holder**

<b>SH 32</b>	48-100204	
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- 


**Cut-off holder, HP-IC**

<b>SH 32</b>	48-102279R	IC 80 bar
<b>SH 32</b>	48-102279L	IC 80 bar






Driven Toolholders - QuickFlex®




Driven Toolholders - Enhanced Program

- 


**Straight drill/milling unit**


<b>ER-32 QF</b>	420132019-65	1:1	EC
	 0067732000		
<b>ER-32 QF</b>	420132020-65	1:1	IC 80 bar
	 0067732000		
- 

**Right angle drill/milling unit**






<b>ER-32 QF</b>	420532025-65	1:1	EC
	 0067732000		
<b>ER-32 QF</b>	420532026-65	1:1	IC 80 bar
	 0067732000		
- 

**Right angle drill/milling unit, both sides**






<b>ER-32 QF</b>	420532043-65	1:1	EC
	 0067732000		

- 





**Straight offset drill/milling unit**

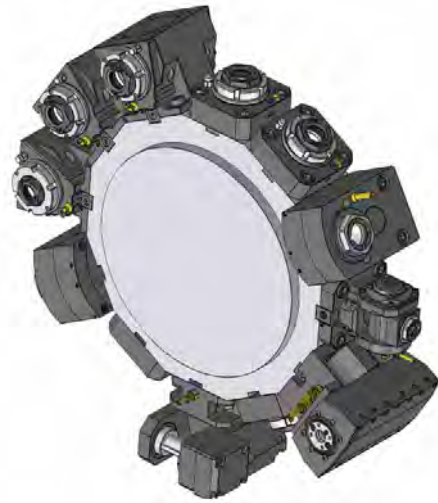
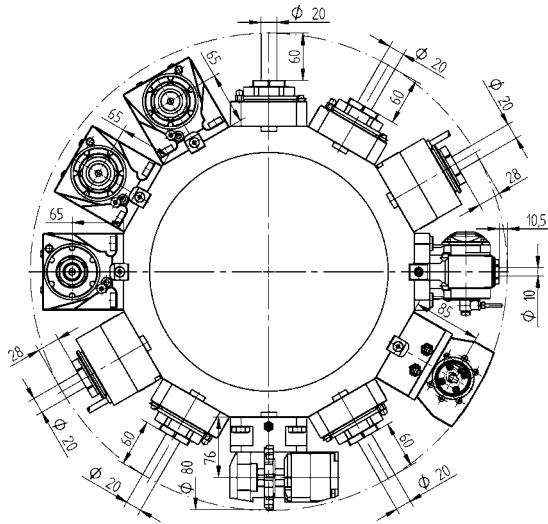
<b>ER 32</b>	410120030-65	1:1	EC
	 00675000958		
<b>ER 32</b>	410120031-65	1:1	IC 80 bar
	 00675000958		
<b>ER 20</b>	410113002-65	1:2	EC
	 00675000591		
<b>ER 20</b>	410113003-65	1:2	IC 80 bar
	 00675000591		
- 

**Right angle drill/milling unit**

<b>ER-25 QF</b>	420525014-65	1:2	EC
	 0067725001		
<b>ER-25 QF</b>	420525015-65	1:2	IC 80 bar
	 0067725001		
<b>ER-32 QF</b>	420532031-65	2:1	EC
	 0067732000		
<b>ER-32 QF</b>	420532032-65	2:1	IC 80 bar
	 0067732000		
- 

**Adjustable angle drill/milling unit**

<b>ER 16</b>	411010000-65	1:1	EC
	 00675000902		
<b>ER 16</b>	411010001-65	1:1	IC 80 bar
	 00675000902		
<b>ER 11</b>	411007001-65	1:2	EC
	 00675000914		
<b>ER 11</b>	411007000-65	1:2	IC 80 bar
	 00675000914		





Driven Toolholders - Enhanced Program





**Offset slitting saw unit**


**Type 14-2** 411500001-65 2.73:1 EC


 00675000448


 160016142 Ø 16


 160022142 Ø 22

 160027142 Ø 27

 160015142 Ø 5/8"

 160019142 Ø 3/4"

 160023142 Ø 7/8"

 160025142 Ø 1"



**Broaching unit for ID and OD**

**TN765050** 414532003-65 1:1 EC

Standard reduction sleeves - cylindrical



**Reduction sleeve Ø 25**

240025006	ø 6
240025008	ø 8
240025010	ø 10
240025012	ø 12
240025016	ø 16
240025020	ø 20



**Reduction sleeve Ø 32**

240032006	ø 6
240032008	ø 8
240032010	ø 10
240032012	ø 12
240032016	ø 16
240032020	ø 20
240032025	ø 25



**Reduction sleeve Ø 40**

240040006	ø 6
240040008	ø 8
240040010	ø 10
240040012	ø 12
240040014	ø 14
240040016	ø 16
240040020	ø 20
240040025	ø 25
240040032	ø 32



**Reduction sleeve Ø 1"**

2400100025	ø 1/4"
2400100031	ø 5/16"
2400100038	ø 3/8"
2400100050	ø 1/2"
2400100063	ø 5/8"
2400100075	ø 3/4"



**Reduction sleeve Ø 1 1/4"**

2400125038	ø 3/8"
2400125050	ø 1/2"
2400125063	ø 5/8"
2400125075	ø 3/4"
2400125088	ø 7/8"
2400125100	ø 1"



**Reduction sleeve Ø 1 1/2"**

2400150038	ø 3/8"
2400150050	ø 1/2"
2400150063	ø 5/8"
2400150075	ø 3/4"
2400150088	ø 7/8"
2400150100	ø 1"
2400150125	ø 1 1/4"

Standard reduction sleeves - morse taper



**Reduction sleeve Ø 32**

240532001	MT 1
240532002	MT 2
240532003	MT 3



**Reduction sleeve Ø 40**

240540001	MT 1
240540002	MT 2
240540003	MT 3
240540004	MT 4



**Reduction sleeve Ø 50**

240550002	MT 2
240550003	MT 3
240550004	MT 4

Collets DIN 6499B (ER/ESX)



ER 11	mm	inch
190011000	ø 7-0.5	ø 0.276-0.020
190011010	ø 1-0.5	ø 0.039-0.020
190011015	ø 1.5-1	ø 0.059-0.039
190011020	ø 2-1.5	ø 0.079-0.059
190011025	ø 2.5-2	ø 0.098-0.079
190011030	ø 3-2.5	ø 0.118-0.098
190011035	ø 3.5-3	ø 0.138-0.118
190011040	ø 4-3.5	ø 0.158-0.138
190011045	ø 4.5-4	ø 0.177-0.158
190011050	ø 5-4.5	ø 0.197-0.177
190011055	ø 5.5-5	ø 0.217-0.197
190011060	ø 6-5.5	ø 0.236-0.217
190011065	ø 6.5-6	ø 0.256-0.236
190011070	ø 7-6.5	ø 0.276-0.256



ER 16	mm	inch
190016000	ø 10-0.5	ø 0.394-0.020
190016010	ø 1-0.5	ø 0.039-0.020
190016020	ø 2-1	ø 0.079-0.039
190016030	ø 3-2	ø 0.118-0.079
190016040	ø 4-3	ø 0.158-0.118
190016050	ø 5-4	ø 0.197-0.158
190016060	ø 6-5	ø 0.236-0.197
190016070	ø 7-6	ø 0.276-0.236
190016080	ø 8-7	ø 0.315-0.276
190016090	ø 9-8	ø 0.354-0.315
190016100	ø 10-9	ø 0.394-0.354



ER 20	mm	inch
190020000	ø 13-1	ø 0.512-0.039
190020010	ø 1-0.5	ø 0.039-0.020
190020020	ø 2-1	ø 0.079-0.039
190020030	ø 3-2	ø 0.118-0.079
190020040	ø 4-3	ø 0.157-0.118
190020050	ø 5-4	ø 0.197-0.157
190020060	ø 6-5	ø 0.236-0.197
190020070	ø 7-6	ø 0.276-0.236
190020080	ø 8-7	ø 0.315-0.276
190020090	ø 9-8	ø 0.354-0.315
190020100	ø 10-9	ø 0.394-0.354
190020110	ø 11-10	ø 0.433-0.394
190020120	ø 12-11	ø 0.472-0.433
190020130	ø 13-12	ø 0.512-0.472

Collets DIN 6499B (ER/ESX)



ER 25	mm	inch
190025000	ø 16-1	ø 0.630-0.039
190025020	ø 2-1	ø 0.079-0.039
190025030	ø 3-2	ø 0.118-0.079
190025040	ø 4-3	ø 0.157-0.118
190025050	ø 5-4	ø 0.197-0.157
190025060	ø 6-5	ø 0.236-0.197
190025070	ø 7-6	ø 0.276-0.236
190025080	ø 8-7	ø 0.315-0.276
190025090	ø 9-8	ø 0.354-0.315
190025100	ø 10-9	ø 0.394-0.354
190025110	ø 11-10	ø 0.433-0.394
190025120	ø 12-11	ø 0.472-0.433
190025130	ø 13-12	ø 0.512-0.472
190025140	ø 14-13	ø 0.551-0.512
190025150	ø 15-14	ø 0.591-0.551
190025160	ø 16-15	ø 0.630-0.591



ER 32	mm	inch
190032000	ø 20-2	ø 0.787-0.079
190032030	ø 3-2	ø 0.118-0.079
190032040	ø 4-3	ø 0.157-0.118
190032050	ø 5-4	ø 0.197-0.157
190032060	ø 6-5	ø 0.236-0.197
190032070	ø 7-6	ø 0.276-0.236
190032080	ø 8-7	ø 0.315-0.276
190032090	ø 9-8	ø 0.354-0.315
190032100	ø 10-9	ø 0.394-0.354
190032110	ø 11-10	ø 0.433-0.394
190032120	ø 12-11	ø 0.472-0.433
190032130	ø 13-12	ø 0.512-0.472
190032140	ø 14-13	ø 0.551-0.512
190032150	ø 15-14	ø 0.591-0.551
190032160	ø 16-15	ø 0.630-0.591
190032170	ø 17-16	ø 0.669-0.630
190032180	ø 18-17	ø 0.709-0.669
190032190	ø 19-18	ø 0.748-0.709
190032200	ø 20-19	ø 0.787-0.748



Collets DIN 6499B (ER/ESX)



ER 40	mm	inch
190040000	∅ 26-3	∅ 1.024-0.118
190040040	∅ 4-3	∅ 0.157-0.118
190040050	∅ 5-4	∅ 0.197-0.157
190040060	∅ 6-5	∅ 0.236-0.197
190040070	∅ 7-6	∅ 0.276-0.236
190040080	∅ 8-7	∅ 0.315-0.276
190040090	∅ 9-8	∅ 0.354-0.315
190040100	∅ 10-9	∅ 0.394-0.354
190040110	∅ 11-10	∅ 0.433-0.394
190040120	∅ 12-11	∅ 0.472-0.433
190040130	∅ 13-12	∅ 0.512-0.472
190040140	∅ 14-13	∅ 0.551-0.512
190040150	∅ 15-14	∅ 0.591-0.551
190040160	∅ 16-15	∅ 0.630-0.591
190040170	∅ 17-16	∅ 0.669-0.630
190040180	∅ 18-17	∅ 0.709-0.669
190040190	∅ 19-18	∅ 0.748-0.709
190040200	∅ 20-19	∅ 0.787-0.748
190040210	∅ 21-20	∅ 0.827-0.787
190040220	∅ 22-21	∅ 0.866-0.827
190040230	∅ 23-22	∅ 0.906-0.866
190040240	∅ 24-23	∅ 0.945-0.906
190040250	∅ 25-24	∅ 0.984-0.945
190040260	∅ 26-25	∅ 1.024-0.984

Collets DIN 6499D (ER/ESX) - sealed, for IC



ER 11	mm	inch
191011030	∅ 3	
191011040	∅ 4	
191011050	∅ 5	
191011060	∅ 6	
191111013-in		∅ 0.125
191111019-in		∅ 0.188
191111025-in		∅ 0.25



ER 16	mm	inch
191016000	∅ 3-10	
191016030	∅ 3	
191016040	∅ 4	
191016050	∅ 5	
191016060	∅ 6	
191016070	∅ 7	
191016080	∅ 8	
191016090	∅ 9	
191016100	∅ 10	
191116001		∅ 0.125-0.375
191116013-in		∅ 0.125
191116019-in		∅ 0.188
191116025-in		∅ 0.25
191116031-in		∅ 0.313
191116038-in		∅ 0.375



ER 20	mm	inch
191020000	∅ 3-12	
191020030	∅ 3	
191020040	∅ 4	
191020050	∅ 5	
191020060	∅ 6	
191020070	∅ 7	
191020080	∅ 8	
191020090	∅ 9	
191020100	∅ 10	
191020110	∅ 11	
191020120	∅ 12	
191120001		∅ 0.125-0.5
191120013-in		∅ 0.125
191120019-in		∅ 0.188
191120025-in		∅ 0.25
191120031-in		∅ 0.313
191120038-in		∅ 0.375
191120044-in		∅ 0.438
191120050-in		∅ 0.5

Collets DIN 6499D (ER/ESX) - sealed, for IC

Collets DIN 6499D (ER/ESX) - sealed, for IC



ER 25	mm	inch
191025000	ø 4-16	
191025030	ø 3	
191025040	ø 4	
191025050	ø 5	
191025060	ø 6	
191025070	ø 7	
191025080	ø 8	
191025090	ø 9	
191025100	ø 10	
191025110	ø 11	
191025120	ø 12	
191025130	ø 13	
191025140	ø 14	
191025150	ø 15	
191025160	ø 16	
191125001		ø 0.25-0.625
191125025-in		ø 0.25
191125031-in		ø 0.313
191125038-in		ø 0.375
191125044-in		ø 0.438
191125050-in		ø 0.5
191125056-in		ø 0.563
191125063-in		ø 0.625



ER 40	mm	inch
191040060	ø 6	
191040080	ø 8	
191040100	ø 10	
191040120	ø 12	
191040140	ø 14	
191040160	ø 16	
191040180	ø 18	
191040200	ø 20	
191040220	ø 22	
191040250	ø 25	
191140025-in		ø 0.25
191140031-in		ø 0.313
191140038-in		ø 0.375
191140044-in		ø 0.438
191140050-in		ø 0.5
191140056-in		ø 0.563
191140063-in		ø 0.625
191140069-in		ø 0.688
191140075-in		ø 0.75
191140088-in		ø 0.875
191140100-in		ø 1



ER 32	mm	inch
191032000	ø 4-20	
191032030	ø 3	
191032040	ø 4	
191032050	ø 5	
191032060	ø 6	
191032070	ø 7	
191032080	ø 8	
191032090	ø 9	
191032100	ø 10	
191032110	ø 11	
191032120	ø 12	
191032130	ø 13	
191032140	ø 14	
191032150	ø 15	
191032160	ø 16	
191032170	ø 17	
191032180	ø 18	
191032190	ø 19	
191032200	ø 20	
191132001		ø 0.25-0.75
191132025-in		ø 0.25
191132031-in		ø 0.313
191132038-in		ø 0.375
191132044-in		ø 0.438
191132050-in		ø 0.5
191132056-in		ø 0.563
191132063-in		ø 0.625
191132069-in		ø 0.688
191132075-in		ø 0.75



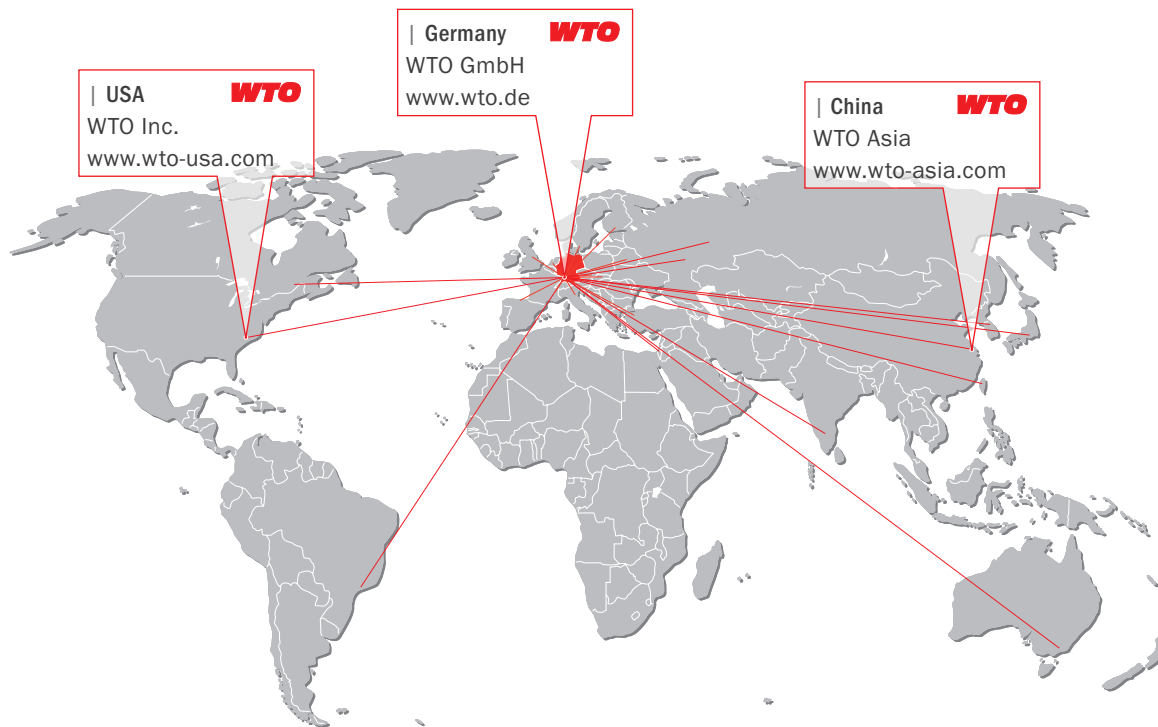


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